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(54) Title: N-UREIDOHETEROCYCLOAKLYL-PIPERIDINES AS MODULATORS OF CHEMOKINE RECEPTOR ACTIV-

(57) Abstract: The present application describes modulators of CCR3 of formula (I): (I)or pharmaceutically acceptable salt forms thereof, useful for the prevention of asthma and other allergic diseases.

TITLE

N-UREIDOHETEROCYCLOALKYL-PIPERIDINES AS MODULATORS OF CHEMOKINE RECEPTOR ACTIVITY

5 <u>FIELD OF THE INVENTION</u>

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This invention relates generally to modulators of chemokine receptor activity, pharmaceutical compositions containing the same, and methods of using the same as agents for treatment and prevention of inflammatory diseases such as asthma and allergic diseases, as well as autoimmune pathologies such as rheumatoid arthritis and atherosclerosis.

BACKGROUND OF THE INVENTION

15 Chemokines are chemotactic cytokines, of molecular weight 6-15 kDa, that are released by a wide variety of cells to attract and activate, among other cell types, macrophages, T and B lymphocytes, eosinophils, basophils and neutrophils (reviewed in Luster, New Eng. J Med., 20 338, 436-445 (1998) and Rollins, Blood, 90, 909-928 (1997)). There are two major classes of chemokines, CXC and CC, depending on whether the first two cysteines in the amino acid sequence are separated by a single amino acid (CXC) or are adjacent (CC). The CXC chemokines, 25 such as interleukin-8 (IL-8), neutrophil-activating protein-2 (NAP-2) and melanoma growth stimulatory activity protein (MGSA) are chemotactic primarily for neutrophils and T lymphocytes, whereas the CC chemokines, such as RANTES, MIP-1 α , MIP-1 β , the monocyte 30 chemotactic proteins (MCP-1, MCP-2, MCP-3, MCP-4, and MCP-5) and the eotaxins (-1,-2, and -3) are chemotactic for, among other cell types, macrophages, T lymphocytes, eosinophils, dendritic cells, and basophils. exist the chemokines lymphotactin-1, lymphotactin-2 35 (both C chemokines), and fractalkine (a CXXXC chemokine)

that do not fall into either of the major chemokine subfamilies.

The chemokines bind to specific cell-surface receptors belonging to the family of G-protein-coupled seven-transmembrane-domain proteins (reviewed in Horuk, Trends Pharm. Sci., 15, 159-165 (1994)) which are termed "chemokine receptors." On binding their cognate ligands, chemokine receptors transduce an intracellular signal through the

10 associated trimeric G proteins, resulting in, among other responses, a rapid increase in intracellular calcium concentration, changes in cell shape, increased expression of cellular adhesion molecules, degranulation, and promotion of cell migration. 15 are at least ten human chemokine receptors that bind or respond to CC chemokines with the following characteristic patterns: CCR-1 (or "CKR-1" or "CC-CKR-1") [MIP-1 α , MCP-3, MCP-4, RANTES] (Ben-Barruch, et al., Cell, 72, 415-425 (1993), Luster, New Eng. J. Med., 338, 20 436-445 (1998)); CCR-2A and CCR-2B (or "CKR-2A"/"CKR-2B" or "CC-CKR-2A"/"CC-CKR-2B") [MCP-1, MCP-2, MCP-3, MCP-4, MCP-5] (Charo et al., Proc. Natl. Acad. Sci. USA, 91, 2752-2756 (1994), Luster, New Eng. J. Med., 338, 436-445 (1998)); CCR-3 (or "CKR-3" or "CC-CKR-3") [eotaxin-1, 25 eotaxin-2, RANTES, MCP-3, MCP-4] (Combadiere, et al., J. Biol. Chem., 270, 16491-16494 (1995), Luster, New Eng. J. Med., 338, 436-445 (1998)); CCR-4 (or "CKR-4" or "CC-CKR-4") [TARC, MIP-1 α , RANTES, MCP-1] (Power et al., J. Biol. Chem., 270, 19495-19500 (1995), Luster, New Eng. 30 J. Med., 338, 436-445 (1998)); CCR-5 (or "CKR-5" OR "CC-CKR-5") [MIP-1 α , RANTES, MIP-1 β] (Sanson, et al.,

Biochemistry, 35, 3362-3367 (1996)); CCR-6 (or "CKR-6" or "CC-CKR-6") [LARC] (Baba et al., J. Biol. Chem., 272, 14893-14898 (1997)); CCR-7 (or "CKR-7" or "CC-CKR-7")

35 [ELC] (Yoshie et al., J. Leukoc. Biol. 62, 634-644

(1997)); CCR-8 (or "CKR-8" or "CC-CKR-8") [I-309, TARC, MIP-1 β] (Napolitano et al., J. Immunol., 157, 2759-2763 (1996), Bernardini et al., Eur. J. Immunol., 28, 582-588 (1998)); and CCR-10 (or "CKR-10" or "CC-CKR-10") [MCP-1, MCP-3] (Bonini et al, DNA and Cell Biol., 16, 1249-1256 (1997)).

In addition to the mammalian chemokine receptors, mammalian cytomegaloviruses, herpesviruses and poxviruses have been shown to express, in infected 10 cells, proteins with the binding properties of chemokine receptors (reviewed by Wells and Schwartz, Curr. Opin. Biotech., 8, 741-748 (1997)). Human CC chemokines, such as RANTES and MCP-3, can cause rapid mobilization of calcium via these virally encoded receptors. Receptor 15 expression may be permissive for infection by allowing for the subversion of normal immune system surveillance and response to infection. Additionally, human chemokine receptors, such as CXCR4, CCR2, CCR3, CCR5 and CCR8, can act as co-receptors for the infection of mammalian cells by microbes as with, for example, the 20 human immunodeficiency viruses (HIV).

Chemokine receptors have been implicated as being important mediators of inflammatory, infectious, and immunoregulatory disorders and diseases, including asthma and allergic diseases, as well as autoimmune pathologies such as rheumatoid arthritis and atherosclerosis. For example, the chemokine receptor CCR-3 plays a pivotal role in attracting eosinophils to sites of allergic inflammation and in subsequently activating these cells. The chemokine ligands for CCR-3 induce a rapid increase in intracellular calcium concentration, increased expression of cellular adhesion molecules, cellular degranulation, and the promotion of eosinophil migration. Accordingly, agents which modulate chemokine receptors would be useful in such

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disorders and diseases. In addition, agents which modulate chemokine receptors would also be useful in infectious diseases such as by blocking infection of CCR3 expressing cells by HIV or in preventing the manipulation of immune cellular responses by viruses such as cytomegaloviruses.

A substantial body of art has accumulated over the past several decades with respect to substituted piperidines and pyrrolidines. These compounds have implicated in the treatment of a variety of disorders.

WO 98/25604 describes spiro-substituted azacycles which are useful as modulators of chemokine receptors:

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wherein R_1 is C_{1-6} alkyl, optionally substituted with functional groups such as $-NR^6CONHR^7$, wherein R^6 and R^7 may be phenyl further substituted with hydroxy, alkyl, cyano, halo and haloalkyl. Such spiro compounds are not considered part of the present invention.

WO 95/13069 is directed to certain piperidine, pyrrolidine, and hexahydro-1H-azepine compounds of general formula:

$$\begin{array}{c}
H \\
R_1 \longrightarrow NHCO-A-N \\
C=O \\
R_5
\end{array}$$

$$\begin{array}{c}
R_4 \\
R_5
\end{array}$$

$$\begin{array}{c}
(CH_2)_n \longrightarrow X \\
R_3 \longrightarrow Y
\end{array}$$

25

wherein A may be substituted alkyl or Z-substituted alkyl, with $Z=NR_{6a}$ or O. Compounds of this type are

claimed to promote the release of growth hormone in humans and animals.

WO 93/06108 discloses pyrrolobenzoxazine derivatives as 5-hydroxytryptamine (5-HT) agonists and antagonists:

wherein A is lower alkylene and R⁴ may be phenyl optionally substituted with halogen.

U.S. Pat. No. 5,668,151 discloses Neuropeptide Y (NPY) antagonists comprising 1,4-dihydropyridines with a piperidinyl or tetrahydropyridinyl-containing moiety attached to the 3-position of the 4-phenyl ring:

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$$R^3$$
 R^4
 R^4
 R^1O_2C
 R^5
 R^5

wherein B may be NH, NR^1 , O, or a bond, and R^7 may be substituted phenyl, benzyl, phenethyl and the like.

Patent publication EP 0 903 349 A2 discloses CCR-3 receptor antagonists comprising cyclic amines of the following structure:

$$Ar-(F)-(E)-CR^3R^4-(CHR)_m-T$$
_U--Q- Ar^1

wherein T and U may be both nitrogen or one of T and U
is nitrogen and the other is carbon and E may be NR6CONR5- and others.

These reference compounds are readily distinguished structurally by either the nature of the urea functionality, the attachment chain, or the possible substitution of the present invention. The prior art does not disclose nor suggest the unique combination of structural fragments which embody these novel piperidine amides as having activity toward the chemokine receptors.

10 <u>SUMMARY OF THE INVENTION</u>

Accordingly, one object of the present invention is to provide novel agonists or antagonists of CCR-3, or pharmaceutically acceptable salts or prodrugs thereof.

It is another object of the present invention to

15 provide pharmaceutical compositions comprising a
pharmaceutically acceptable carrier and a
therapeutically effective amount of at least one of the
compounds of the present invention or a pharmaceutically
acceptable salt or prodrug form thereof.

It is another object of the present invention to provide a method for treating inflammatory diseases and allergic disorders comprising administering to a host in need of such treatment a therapeutically effective amount of at least one of the compounds of the present invention or a pharmaceutically acceptable salt or prodrug form thereof.

It is another object of the present invention to provide novel N-ureidoheterocycloalkyl-piperidines for use in therapy.

It is another object of the present invention to provide the use of novel N-ureidoheterocycloalkyl-piperidines for the manufacture of a medicament for the treatment of allergic disorders.

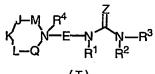
These and other objects, which will become apparent during the following detailed description, have been achieved by the inventors' discovery that compounds of formula (I):

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or stereoisomers or pharmaceutically acceptable salts thereof, wherein E, Z, M, J, K, L, Q, R^1 , R^2 , R^3 , and R^4 are defined below, are effective modulators of chemokine activity.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

15 [1] Thus, in a first embodiment, the present invention provides novel compounds of formula (I):



(I)

or stereoisomers or pharmaceutically acceptable salts thereof, wherein:

M is absent or selected from CH_2 , CHR^5 , CHR^{13} , $CR^{13}R^{13}$, and CR^5R^{13} ;

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Q is selected from CH2, CHR5, CHR13, CR13R13, and CR5R13;

J and K are independently selected from CH_2 , CHR^5 , CHR^6 , CR^6R^6 and CR^5R^6 ;

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L is selected from CHR⁵ and CR⁵R⁶;

with the proviso:

when M is absent, J is selected from CH_2 , CHR^5 , CHR^{13} , and CR^5R^{13} ;

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Z is selected from O, S, NR^{1a} , $C(CN)_2$, $CH(NO_2)$, and CHCN;

 R^{1a} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, 10 CONR^{1b}R^{1b}, OR^{1b}, CN, NO₂, and (CH₂)_wphenyl;

 R^{1b} is independently selected from H, C_{1-3} alkyl, C_{3-6} cycloalkyl, and phenyl;

G is selected from a bond, C=0, and SO_2 ;

Ring B is a 5, 6, or 7 membered saturated heterocyclic ring wherein the heterocycle ring includes $-NR^9-$, -0-, $-S(O)_p-$, $-NR^{9d}C(O)-$, $-C(O)NR^{9d}-$, -C(O)O-, -OC(O)-, $-NR^{9d}C(O)NR^{9d}$, $-NR^{9d}C(O)O-$, $-NR^{9d}S(O)_2-$, $-S(O)_2NR^{9d}$, or $-OC(O)NR^{9d}-$, the heterocycle ring being optionally substituted by 0-2 R^8 ;

25

 R^1 and R^2 are independently selected from H, C_{1-8} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, and $(CH_2)_rC_{3-6}$ cycloalkyl;

 R^3 is selected from methyl substituted with 0-1 R^{10} , C_{2-8} alkyl substituted with 0-3 R^7 , C_{3-8} alkenyl substituted with 0-3 R^7 , C_{3-8} alkynyl substituted with 0-3 R^7 , C_2 fluoroalkyl, C_{3-8} haloalkyl, a $(CR^3'R^3'')_r$ - C_{3-10} carbocyclic residue substituted with 0-5 R^{15} and a $(CR^3'R^3'')_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{15} ;

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 $\mbox{R}^{3}\,'$ and $\mbox{R}^{3}\,'',$ at each occurrence, are selected from H, \mbox{C}_{1-6}

alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;

- 15 R⁴ is absent, taken with the nitrogen to which it is attached to form an N-oxide, or selected from C_{1-8} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $(CH_2)_qC(0)R^{4b}$, $(CH_2)_qC(0)NR^{4a}R^{4a'}$, $(CH_2)_qC(0)OR^{4b}$, and a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-3 R^{4c};
 - R^{4a} and $R^{4a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;
- 25 R^{4b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, $(CH_2)_rC_{3-6}$ cycloalkyl, C_{3-8} alkynyl, and phenyl;
- R^{4c} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl,

 $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rNR^{4a}R^{4a'}$, and $(CH_2)_rphenyl$;

- R⁵ is selected from a (CR⁵'R⁵")_t-C₃₋₁₀ carbocyclic

 residue substituted with 0-5 R¹⁶ and a (CR⁵'R⁵")_t-5
 10 membered heterocyclic system containing 1-4

 heteroatoms selected from N, O, and S, substituted

 with 0-3 R¹⁶;
- 10 R^{5} and R^{5} , at each occurrence, are selected from H, C_{1-6} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;
- R⁶, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $(CF_2)_rCF_3$, CN, $(CH_2)_rNR^{6a}R^{6a'}$, $(CH_2)_rOH$, $(CH_2)_rOR^{6b}$, $(CH_2)_rSH$, $(CH_2)_rSR^{6b}$, $(CH_2)_rC(0)OH$, $(CH_2)_rC(0)R^{6b}$, $(CH_2)_rC(0)NR^{6a}R^{6a'}$, $(CH_2)_rNR^{6d}C(0)R^{6a}$, $(CH_2)_rC(0)OR^{6b}$, $(CH_2)_rOC(0)R^{6b}$, $(CH_2)_rS(0)_pR^{6b}$, $(CH_2)_rS(0)_2NR^{6a}R^{6a'}$, $(CH_2)_rNR^{6d}S(0)_2R^{6b}$, and $(CH_2)_tphenyl$ substituted with 0-3 R^{6c} ;
 - R^{6a} and $R^{6a}{}^{\prime},$ at each occurrence, are selected from H, C_{1-6}
- alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{6c} ;
 - $R^{6\mathrm{b}},$ at each occurrence, is selected from C_{1-6} alkyl, C_{3-6}
- 30 cycloalkyl, and phenyl substituted with 0-3 R6c;

 R^{6c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1} , F, Br, I, CN, NO_{2} , $(CF_{2})_{r}CF_{3}$, $(CH_{2})_{r}OC_{1-5}$ alkyl, $(CH_{2})_{r}OH$, $(CH_{2})_{r}SC_{1-5}$ alkyl, and $(CH_{2})_{r}NR^{6d}R^{6d}$;

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- R^{6d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- with the proviso that when any of J or K is CR⁶R⁶ and R⁶
 is cyano, or bonded to the carbon to which it is
 attached through a heteroatom, the other R⁶ is not
 cyano, or bonded to the carbon to which it is
 attached through a heteroatom;
- 15 R^7 is selected from NO_2 , CN, $NR^{7a}R^{7a}$, OH, OR^{7d} , C(O)H, C(O)OH, $C(O)R^{7b}$, $C(O)NR^{7a}R^{7a}$, $NR^{7f}C(O)OR^{7d}$, $OC(O)NR^{7a}R^{7a}$, $NR^{7f}C(O)R^{7b}$, $NR^{7f}C(O)R^{7f}R^{7f}$, $C(O)OR^{7d}$, $OC(O)R^{7b}$, $C(=NR^{7f})NR^{7a}R^{7a}$, $NHC(=NR^{7f})NR^{7f}R^{7f}$, $S(O)_pR^{7b}$, $S(O)_2NR^{7a}R^{7a}$, $NR^{7f}S(O)_2R^{7b}$, C_{1-6} haloalkyl;

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- R^{7a} and R^{7a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{7e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{7e} ;
- alternatively, R^{7a} and R^{7a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{7h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

 R^{7b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-3 R^{7e} , and $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{7e} ;

- R^{7d}, at each occurrence, is selected from C₃₋₈ alkenyl,

 C₃₋₈ alkynyl, methyl, CF₃, C₂₋₆ alkyl substituted

 with 0-3 R^{7e}, a (CH₂)_r-C₃₋₁₀ carbocyclic residue

 substituted with 0-3 R^{7e}, and a (CH₂)_r5-6 membered

 heterocyclic system containing 1-4 heteroatoms

 selected from N, O, and S, substituted with 0-3

 R^{7e}:
- R^{7e}, at each occurrence, is selected from C₁₋₆ alkyl,
 C₂₋₈ alkenyl, C₂₋₈ alkynyl, (CH₂)_rC₃₋₆ cycloalkyl,
 C(0)C₁₋₆ alkyl, C(0)OC₁₋₆ alkyl, Cl, F, Br, I, CN,
 NO₂, (CF₂)_rCF₃, (CH₂)_rOC₁₋₅ alkyl, OH, SH, (CH₂)_rSC₁₋₅ alkyl, (CH₂)_rNR^{7f}R^{7f}, (CH₂)_rphenyl, and a
 heterocycle substituted with 0-1 R^{7g}, wherein the heterocycle is selected from imidazole, thiazole, oxazole, pyrazole, 1,2,4-triazole, 1,2,3-triazole,
 isoxazole, and tetrazole,;
 - R^{7f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;
- 30 R^{7g} is selected from methyl, ethyl, acetyl, and CF_3 ;
 - R^{7h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(O)R^{7f}$, $C(O)OR^{7i}$, and SO_2R^{7i} ;

 R^{7i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;

- 5 R⁸ is selected from C₁₋₆ alkyl, C₂₋₈ alkenyl, C₂₋₈ alkynyl, C₁₋₆ haloalkyl, a (CH₂)_r-C₃₋₁₀ carbocyclic residue substituted with 0-3 R^{8c}, and a (CH₂)_r-5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{8c};
- R^{8a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-5 R^{8e} , and a $(CH_2)_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{8e} ;
- R^{8b}, at each occurrence, is selected from C₁₋₆ alkyl,

 C₃₋₈ alkenyl, C₃₋₈ alkynyl, a (CH₂)_r-C₃₋₆ carbocyclic

 residue substituted with 0-2 R^{8e}, and a (CH₂)_r-5-6

 membered heterocyclic system containing 1-4

 heteroatoms selected from N, O, and S, substituted

 with 0-3 R^{8e};

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R8c, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, C1, Br, I, F, $(CF_2)_rCF_3$, NO_2 , CN, $(CH_2)_rNR^8f_R^{8f}$, $(CH_2)_rOH$, $(CH_2)_rOC_{1-4}$ alkyl, $(CH_2)_rSC_{1-4}$ alkyl, $(CH_2)_rC(0)OH$, $(CH_2)_rC(0)R^{8a}$, $(CH_2)_rC(0)NR^8f_R^{8f}$, $(CH_2)_rNR^{8f}C(0)R^{8a}$, $(CH_2)_rC(0)OC_{1-4}$ alkyl, $(CH_2)_rOC(0)R^{8b}$, $(CH_2)_rS(0)_pR^{8b}$, $(CH_2)_rS(0)_2NR^{8f}R^{8f}$,

 $(CH_2)_rNR^{8f}S(O)_2R^{8b}$, and $(CH_2)_r$ phenyl substituted with 0-3 R^{8e} :

- R^{8e}, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO₂, $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rNR^{8f}R^{8f}$, and $(CH_2)_rphenyl$;
- 10 R^{8f} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- R⁹ is selected from H, CH₃, C₂₋₆ alkyl substituted with $0-3 R^{9a}$, C₃₋₈ alkenyl, C₃₋₈ alkynyl, C₁₋₆ haloalkyl, (CHR')_rC(O)C₁₋₆ alkyl substituted with $0-3 R^{9j}$, (CHR')_rC(O)OC₁₋₆ alkyl substituted with $0-3 R^{9b}$, (CHR')_rC(O)NR^{9d}R^{9d}', (CHR')_rS(O)₂C₁₋₆ alkyl, S(O)₂C₁₋₆ haloalkyl, (CHR')_rS(O)₂NR^{9d}R^{9d}, R^{9'}, (CHR')_rC(O)R^{9'}, (CHR')_rC(O)NR^{9d}R^{9'}, (CHR')_rS(O)₂R^{9'}, and (CHR')_rS(O)₂NR^{9d}R^{9'};
- R^{9'}, at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl substituted with 0-3 R^{9e}, (CHR')_rphenyl substituted with 0-3 R^{9c}, (CHR')_r-5
 10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{9c},
- R^{9a} , at each occurrence, is selected from CN, NO_2 , OC_{1-5} 30 alkyl, CF_3 , OH, OC_{1-5} alkyl, $OC(0)C_{1-5}$ alkyl, SC_{1-5} alkyl, $S(0)_pC_{1-5}$ alkyl, and $NR^{9d}R^{9d'}$;

 R^{9b} , at each occurrence, is selected from C_{3-6} cycloalkyl, CN, $(CF_2)_rCF_3$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qOH$, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_qNR^{9d}R^{9d}$;

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R^{9c}, at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1} , F, Br, I, CN, NO_{2} , $(CF_{2})_{r}CF_{3}$, $(CH_{2})_{r}OC_{1-5}$ alkyl, $(CHR')_{r}C(0)C_{1-5}$ alkyl, $(CHR')_{r}C(0)NR^{9d}R^{9d'}$, $(CH_{2})_{r}OH$, $(CH_{2})_{r}SC_{1-5}$ alkyl, $(CH_{2})_{r}S(0)_{p}C_{1-5}$ alkyl, and $(CH_{2})_{r}NR^{9d}R^{9d'}$;

provided that if R^{9c} is attached to a carbon attached to the nitrogen on Ring B, then R^{9c} is selected from (CH₂)_qOH, (CH₂)_qOC₁₋₅ alkyl, (CH₂)_qSC₁₋₅ alkyl, (CH₂)_qS(O)_qC₁₋₅ alkyl, and (CH₂)_qNR^{9d}R^{9d'};

 R^{9d} and $R^{9d'}$, at each occurrence, are independently selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;

alternatively, R^{9d} and R^{9d'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{9h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

R^{9e}, at each occurrence, is selected from C₁₋₆ alkyl, C₃₋₆ cycloalkyl, Cl, F, Br, I, CN, NO₂, (CF₂)_rCF₃, (CH₂)_rOC₁₋₅ alkyl, (CHR')_rC(O)OC₁₋₅ alkyl,

(CH₂)_rC(O)NR^{9d}R^{9d'}, (CH₂)_rOH, (CH₂)_rSC₁₋₅ alkyl, (CH₂)_rS(O)_pC₁₋₅ alkyl, and (CH₂)_rNR^{9d}R^{9d'}, or

alternatively, two R^{9e} on the same carbon atom form =0;

- R^{9h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(0)R^{9f}$, $C(0)OR^{9i}$, and SO_2R^{9i} ;
 - R^{9i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;
- 10 R^{9j} , at each occurrence, is selected from C_{3-6} cycloalkyl, CN, $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d}$;
- 15 R^{10} is selected from C(O)H, C(O)OH, C(O)R^{10b}, C(O)NR^{10a}R^{10a}, C(O)OR^{10d}, C(=NR^{10f})NR^{10a}R^{10a}, S(O)R^{10b}, S(O)₂R^{10b}, S(O)₂NR^{10a}R^{10a};
- R^{10a} and R^{10a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{10e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{10e} ;

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alternatively, R^{10a} and R^{10a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{10h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

 R^{10b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-3 R^{10e} , and $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{10e} :

 R^{10d} , at each occurrence, is selected from C_{3-8} alkenyl, C_{3-8} alkynyl, methyl, CF_3 , C_{2-6} alkyl substituted with 0-3 R^{10e} , a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{10e} , and a $(CH_2)_r$ 5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{10e} ;

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 R^{10e} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $C(0)C_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(0)OC_{1-5}$ alkyl,

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 R^{10f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;

 ${\bf R}^{10g}$ is selected from methyl, ethyl, acetyl, and ${\bf CF}_3$;

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 R^{10h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(O)R^{10f}$, $C(O)OR^{10i}$, and SO_2R^{10i} ;

 $\mbox{R}^{10i},$ at each occurrence, is selected from \mbox{C}_{1-6} alkyl, \mbox{C}_{3-6} cycloalkyl;

- R¹³, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, $(CF_2)_w CF_3$, $(CH_2)_q NR^{13a}R^{13a'}$, $(CH_2)_q OH$, $(CH_2)_q OR^{13b}$, $(CH_2)_q SH$, $(CH_2)_q SR^{13b}$, $(CH_2)_w C(0)OH$, $(CH_2)_w C(0)R^{13b}$, $(CH_2)_w C(0)NR^{13a}R^{13a'}$, $(CH_2)_q NR^{13d}C(0)R^{13a}$, $(CH_2)_w C(0)OR^{13b}$, $(CH_2)_q OC(0)R^{13b}$, $(CH_2)_w S(0)_2 NR^{13a}R^{13a'}$, $(CH_2)_q NR^{13d}S(0)_2 R^{13b}$, and $(CH_2)_w phenyl$ substituted with 0-3 R^{13c} ;
- R^{13a} and R^{13a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;
 - R^{13b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;

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- R^{13c}, at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO₂, $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, and $(CH_2)_rNR^{13d}R^{13d}$;
- R^{13d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- R¹⁵, at each occurrence, is selected from =0, C_{1-8} alkyl, (CH₂)_rC₃₋₆ cycloalkyl, Cl, Br, I, F, NO₂, CN, (CHR')_rNR^{15a}R^{15a'}, (CHR')_rOH, (CHR')_rO(CHR')_rR^{15d},

 $(CHR')_rSH$, $(CHR')_rC(O)H$, $(CHR')_rC(O)OH$, $(CHR')_rC(O)(CHR')_rR^{15b}$, $(CHR')_rC(O)NR^{15a}R^{15a'}$, $(CHR')_rNR^{15}fC(0)O(CHR')_rR^{15}d$, $(CHR')_rOC(0)NR^{15}aR^{15}a'$. $(CHR')_rNR^{15f}C(O)(CHR')_rR^{15b}$, $(CHR')_rNR^{15f}C(O)NR^{15f}R^{15f}$, $(CHR')_rC(O)O(CHR')_rR^{15d}$, 5 $(CHR')_rOC(O)(CHR')_rR^{15b}$, $(CHR')_rC(=NR^{15f})NR^{15a}R^{15a'}$, $(CHR')_rNHC (=NR^{15f})NR^{15f}R^{15f}, (CHR')_rS(0)_r(CHR')_rR^{15b},$ $(CHR')_rS(O)_2NR^{15a}R^{15a'}$, $(CHR')_rNR^{15f}S(O)_2(CHR')_rR^{15b}$, C_{1-6} haloalkyl, C_{2-8} alkenyl substituted with 0-3 10 R', C_{2-8} alkynyl substituted with 0-3 R', (CHR') rphenyl substituted with 0-3 R^{15e}, and a (CH₂)_r-5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R15e;

- R', at each occurrence, is independently selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and $(CH_2)_r$ phenyl substituted with R^{15e} ;
- 20 R^{15a} and $R^{15a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{15e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e} ;
- alternatively, R^{15a} and R^{15a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms

 30 selected from NR^{15h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

 R^{15b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-3 R^{15e} , and $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e} ;

- R^{15d} , at each occurrence, is selected from C_{3-8} alkenyl, C_{3-8} alkynyl, methyl, CF_3 , C_{2-6} alkyl substituted with 0-3 R^{15e} , a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{15e} , and a $(CH_2)_r$ 5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{15e} ;
- R^{15e}, at each occurrence, is selected from C₁₋₆ alkyl,
 C₂₋₈ alkenyl, C₂₋₈ alkynyl, (CH₂)_rC₃₋₆ cycloalkyl,
 C(0)C₁₋₆ alkyl, C(0)OC₁₋₆ alkyl, Cl, F, Br, I, CN,
 NO₂, (CF₂)_rCF₃, (CH₂)_rOC₁₋₅ alkyl, OH, SH, (CH₂)_rSC₁₋₅ alkyl, (CH₂)_rNR^{15f}R^{15f}, (CH₂)_rphenyl, and a
 heterocycle substituted with 0-1 R^{15g}, wherein the heterocycle is selected from imidazole, thiazole, oxazole, pyrazole, 1,2,4-triazole, 1,2,3-triazole, isoxazole, and tetrazole,;
 - R^{15f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;
- 30 R^{15g} is selected from methyl, ethyl, acetyl, and CF_3 ;
 - R^{15h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(O)R^{15f}$, $C(O)OR^{15i}$, and SO_2R^{15i} ;

 R^{15i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;

- R^{16} , at each occurrence, is selected from C_{1-8} alkyl, 5 C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, Cl, Br, I, F, NO₂, CN, (CHR')_rNR^{16a}R^{16a'}, (CHR')_rOH, $(CHR')_rO(CHR')_rR^{16d}$, $(CHR')_rSH$, $(CHR')_rC(O)H$, $(CHR')_rC(O)OH$, $(CHR')_rC(O)(CHR')_rR^{16b}$, 10 $(CHR')_rC(O)NR^{16a}R^{16a'}$, $(CHR')_rNR^{16f}C(O)(CHR')_rR^{16b}$, $(CHR')_rC(O)O(CHR')_rR^{16d}$, $(CHR')_rOC(O)(CHR')_rR^{16b}$, (CHR') rC (=NR^{16f}) NR^{16a}R^{16a}, $(CHR')_rNHC (=NR^{16f})NR^{16f}R^{16f}, (CHR')_rS(0)_p(CHR')_rR^{16b},$ $(CHR')_rS(O)_2NR^{16a}R^{16a'}$, $(CHR')_rNR^{16f}S(O)_2(CHR')_rR^{16b}$. 15 C_{1-6} haloalkyl, C_{2-8} alkenyl substituted with 0-3 R', C_{2-8} alkynyl substituted with 0-3 R', and (CHR') rphenyl substituted with 0-3 R16e;
- R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-5 R^{16e} , and a $(CH_2)_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{16e} ;

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alternatively, R^{16a} and R^{16a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{16h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

 R^{16b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_rC_{3-6}$ carbocyclic residue substituted with 0-3 R^{16e} , and a $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{16e} ;

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- R^{16d} , at each occurrence, is selected from C_{3-8} alkenyl, C_{3-8} alkynyl, C_{1-6} alkyl substituted with 0-3 R^{16e} , a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{16e} , and a $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, 0, and S, substituted with 0-3 R^{16e} ;
- 15 R^{16e} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, OH, SH, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rNR^{16f}R^{16f}$, and $(CH_2)_rphenyl$;

 R^{16f} , at each occurrence, is selected from H, C_{1-5} alkyl, and C_{3-6} cycloalkyl, and phenyl;

- R^{16h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, (CH₂)_rphenyl, C(O) R^{16f} , C(O) OR^{16i} , and SO_2R^{16i} ;
 - R^{16i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;

t, at each occurrence, is independently selected from 1 and 2;

- w, at each occurrence, is independently selected from 0
 and 1;
 - r, at each occurrence, is independently selected from 0,
 1, 2, 3, 4, and 5;
- 10 q, at each occurrence, is independently selected from 1, 2, 3, 4, and 5; and

 - [2] In another embodiment, the present invention provides novel compounds of formula (I), wherein:

- R⁴ is absent, taken with the nitrogen to which it is
 20 attached to form an N-oxide, or selected from C₁₋₈
 alkyl, (CH₂)_rC₃₋₆ cycloalkyl, and (CH₂)_r-phenyl
 substituted with 0-3 R^{4c};
- R^{4c} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, C_{1} , C_{1} , C_{1} , C_{1} , C_{1} , C_{1} , C_{2} , C_{1} , C_{2} , C_{3} , C_{1} , C_{1} , C_{1} , C_{2} , C_{3} , C_{1} , C_{2} , C_{2} , C_{3} , C_{3} , C_{4} , C_{1} , C_{1} , C_{2} , C_{2} , C_{3} , C_{4} , C_{4} , C_{2} , C_{4} , $C_{$
- 30 R^1 and R^2 are independently selected from H and C_{1-4} alkyl;
 - R^6 , at each occurrence, is selected from C_{1-4} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl,

 $(CF_2)_rCF_3$, CN, $(CH_2)_rOH$, $(CH_2)_rOR^{6b}$, $(CH_2)_rC(O)R^{6b}$, $(CH_2)_rC(O)NR^{6a}R^{6a'}$, $(CH_2)_rNR^{6d}C(O)R^{6a}$, and $(CH_2)_tphenyl$ substituted with 0-3 R^{6c} ;

- 5 R^{6a} and $R^{6a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{6c} ;
- 10 R^{6b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{6c} ;
- R^{6c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} 6 cycloalkyl, C_{1} , E_{1} , E_{2} , E_{3} , E_{1} , E_{2} , E_{2} , E_{3} , E_{3} , E_{2} , E_{3} , $E_{$
- R^{6d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
 - R¹³, at each occurrence, is selected from C_{1-4} alkyl, C_{3-6} cycloalkyl, $(CH_2)NR^{13}aR^{13}a'$, $(CH_2)OH$, $(CH_2)OR^{13}b$, $(CH_2)_wC(O)R^{13}b$, $(CH_2)_wC(O)NR^{13}aR^{13}a'$,
- 25 $(CH_2)NR^{13d}C(O)R^{13a}$, $(CH_2)_wS(O)_2NR^{13a}R^{13a}$, $(CH_2)NR^{13d}S(O)_2R^{13b}$, and $(CH_2)_w$ -phenyl substituted with 0-3 R^{13c} ;
- R^{13a} and R^{13a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;

 $\ensuremath{\text{R}^{13b}},$ at each occurrence, is selected from C_{1-6} alkyl, C_{3-6}

cycloalkyl, and phenyl substituted with 0-3 R13c;

5 R^{13c}, at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO₂, $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, and $(CH_2)_rNR^{13d}R^{13d}$;

 R^{13d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;

q is selected from 1, 2, and 3; and

r is selected from 0, 1, 2, and 3.

- [3] In another embodiment, the present invention provides novel compounds of formula (I), wherein:
- C₂₋₈ alkyl substituted with 0-3 R⁷, a (CR³'H)_rcarbocyclic residue substituted with 0-5 R¹⁵,
 wherein the carbocyclic residue is selected from
 phenyl, C₃₋₆ cycloalkyl, naphthyl, and adamantyl;
 and a (CR³'H)_r-heterocyclic system substituted with
 0-3 R¹⁵, wherein the heterocyclic system is
 selected from pyridinyl, thiophenyl, furanyl,
 indazolyl, benzothiazolyl, benzimidazolyl,
 benzothiophenyl, benzofuranyl, benzoxazolyl,
 benzisoxazolyl, quinolinyl, isoquinolinyl,
- imidazolyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl,

thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and

- R⁵ is selected from (CR⁵'H)_t-phenyl substituted with 0-5

 R¹⁶; and a (CR⁵'H)_t-heterocyclic system substituted with 0-3 R¹⁶, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl.
 - [4] In another embodiment, the present invention provides novel compounds of formula (I), wherein:
- Ring B is a 5 or 6 membered heterocycle ring wherein the heterocycle ring includes -NR⁹-, -O-, -S(O)_p-, -NR^{9d}C(O)-, -C(O)NR^{9d}-, -C(O)O-, -OC(O)-, -NR^{9d}C(O)NR^{9d}, -NR^{9d}C(O)O-, -OC(O)NR^{9d}-, -NR^{9d}S(O)₂-, or -S(O)₂NR^{9d}, the heterocycle ring being optionally substituted by 0-2 R⁸;
- $R^9 \text{ is selected from H, CH}_3, C_{2-6} \text{ alkyl substituted with } 0-3 R^{9a}, C_{3-8} \text{ alkenyl, } C_{3-8} \text{ alkynyl, } C_{1-3} \text{ haloalkyl, } (CH_2)_rC(0)C_{1-6} \text{ alkyl substituted with } 0-2 R^{9j}, \\ (CH_2)_rC(0)OC_{1-6} \text{ alkyl substituted with } 0-3 R^{9b}, \\ (CH_2)_rC(0)NR^{9d}R^{9d'}, (CH_2)_rS(0)_2C_{1-6} \text{ alkyl, } S(0)_2C_{1-6} \\ \text{trifluoromethyl, } (CH_2)_rC(0)R^{9'}, (CH_2)_rC(0)NR^{9d}R^{9'}, \\ (CH_2)_rS(0)_2R^{9'}, R^{9'}, \text{ and } (CH_2)_rS(0)_2NR^{9d}R^{9'};$

R9', at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl substituted with 0-3 R^{9e}, wherein the cycloalkyl is selected from 5 cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR') rphenyl substituted with 0-3 R9c, (CHR')_r5-6 membered heterocycle system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R9c, wherein the heterocycle 10 is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl, tetrahydrothiopyranyl dioxide, thiophene, imidazolyl, pyrrolidinyl, pyrrolyl, thiazolyl, and furanyl, and (CHR')rphenyl 15 substituted with 0-3 R9c;

 R^{9a} , at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, S(O)_p-methyl, S(O)_p-ethyl, S(O)_p-propyl, and $NR^{9d}R^{9d}$;

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 R^{9b} , at each occurrence, is selected from cyclopropyl, cyclbutyl, cyclpentyl, CN, CF_3 , CH_2 - OC_{1-5} alkyl, CH_2 -OH, CH_2 - SC_{1-5} alkyl, and CH_2 - $NR^{9d}R^{9d}$;

provided that if R9c is attached to a carbon attached to the nitrogen on Ring B, then R9c is selected from $(CH_2)_qOH$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_{g}S(O)_{g}C_{1-5}$ alkyl, and $(CH_2)_{g}NR^{9d}R^{9d'}$;

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R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, methyl, ethyl, propyl, i-propyl, butyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and phenyl;

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- R^{9e} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-} 6 cycloalkyl, Cl, F, Br, I, CN, NO₂, (CF₂)_rCF₃, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rC(O)OC_{1-5}$ alkyl, (CH₂)_rC(O)NR^{9d}R^{9d'}, (CH₂)_rOH, (CH₂)_rSC₁₋₅ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d'}$, or alternatively, two R9e on the same carbon atom form =0; and
- R^{9j}, at each occurrence, is selected from cyclpropyl, 20 cyclobutyl, cyclopentyl, CN, CF3, O-methyl, Oethyl, O-propyl, O-i-propyl, O-butyl, OH, S-methyl, S-ethyl, and NR9dR9d'.
- [5] In another embodiment, the present invention 25 provides novel compounds of formula (I-i), wherein:

Z is selected from O, S, NCN, and NCONH2;

R¹⁶, at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F, $(CH_2)_rNR^{16a}R^{16a'}$, NO_2 , CN, OH, $(CH_2)_rOR^{16d}$, $(CH_2)_rC(O)R^{16b}$, $(CH_2)_rC(O)NR^{16a}R^{16a'}$, $(CH_2)_rNR^{16f}C(O)R^{16b}$, $(CH_2)_rS(O)_pR^{16b}$, $(CH_2)_rS(O)_2NR^{16a}R^{16a'}$, $(CH_2)_rNR^{16f}S(O)_2R^{16b}$, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

 R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

 R^{16b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

 R^{16d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;

20 R^{16e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and

 R^{16f} , at each occurrence, is selected from H, and C_{1-5} alkyl.

[6] In another embodiment, the present invention provides novel compounds of formula (I-ii), wherein:

30

Z is selected from O, S, NCN, and NCONH2;

10

- R^{16} , at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F,
- $(CH_2)_r NR^{16a}R^{16a'}, NO_2, CN, OH, (CH_2)_r OR^{16d},$ $(CH_2)_r C(O)R^{16b}, (CH_2)_r C(O)NR^{16a}R^{16a'},$ $(CH_2)_r NR^{16f}C(O)R^{16b}, (CH_2)_r S(O)_p R^{16b},$ $(CH_2)_r S(O)_2 NR^{16a}R^{16a'}, (CH_2)_r NR^{16f}S(O)_2 R^{16b}, and$ $(CH_2)_r Phenyl substituted with 0-3 R^{16e};$
- R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;
- 15 R^{16b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;
- R^{16d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
 - R^{16e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and
- R^{16f} , at each occurrence, is selected from H, and C_{1-5} alkyl.
- [7] In another embodiment, the present invention provides novel compounds of formula (I-i), wherein:
 - Ring B is a 5 or 6 membered saturated heterocycle ring, wherein the heterocycle ring is selected from

piperidine, tetrahydropyran, tetrahydrothiopyran, tetrahydrothiopyran 1,1-dioxide, tetrahydrothiopyran 1-monooxide, piperidin-2-one, tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, pyrrolidin-2-one, dihydrofuran-2-one, and isothiazolidine 1,1-dioxide, the heterocycle ring being optionally substituted by 0-2 R⁸;

10 R^5 is CH₂phenyl substituted with 0-3 R^{16} ;

r is selected from 0, 1, and 2.

[8] In another embodiment, the present invention provides novel compounds of formula (I-ii), wherein:

Ring B is a 5 or 6 membered saturated heterocycle ring, wherein the heterocycle ring is selected from piperidine, tetrahydropyran, tetrahydrothiopyran, tetrahydrothiopyran 1,1-dioxide, tetrahydrothiopyran 1-monooxide, piperidin-2-one, tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, pyrrolidin-2-one, dihydrofuran-2-one, and isothiazolidine 1,1-dioxide, the heterocycle ring being optionally substituted by 0-2 R8;

 R^5 is CH₂phenyl substituted with 0-3 R^{16} ; and

- 30 r is selected from 0, 1, and 2.
 - [9] In another embodiment, the present invention provides novel compounds of formula (I-i), wherein:
- 35 J is selected from CH2 and CHR5;

K is selected from CH2 and CHR5;

L is CHR⁵;

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 R^3 is selected from a C_{3-10} carbocyclic residue substituted with 0-3 R¹⁵, wherein the carbocyclic residue is selected from cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, phenyl, naphthyl and adamantyl, and a (CR3'H)_r-heterocyclic system 10 substituted with 0-3 R¹⁵, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, 15 imidazolyl, indolyl, indolinyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, 20 tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and

R¹⁵, at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6} \text{ cycloalkyl}, CF_3, Cl, Br, I, F, \\ (CH_2)_rNR^{15a}R^{15a'}, NO_2, CN, OH, (CH_2)_rOR^{15d}, \\ (CH_2)_rC(O)R^{15b}, (CH_2)_rC(O)NR^{15a}R^{15a'}, \\ (CH_2)_rNR^{15f}C(O)R^{15b}, (CH_2)_rNR^{15f}C(O)O(CHR')_rR^{15d}, \\ (CH_2)_rOC(O)NR^{15a}R^{15a'}, (CH_2)_rS(O)_pR^{15b}, \\ (CH_2)_rS(O)_2NR^{15a}R^{15a'}, (CH_2)_rNR^{15f}S(O)_2R^{15b}, \\ (CH_2)_rphenyl \text{ substituted with } 0-3 \ R^{15e}, \text{ and a} \\ (CH_2)_r-5-6 \text{ membered heterocyclic system containing } \\ 1-4 \text{ heteroatoms selected from N, O, and S,}$

substituted with 0-2 R^{15e}, wherein the heterocyclic system is selected from tetrazolyl, piperidinyl, pyrrolidinyl, imidazolyl, thiazolyl, pyrazolyl, pyridyl, thienyl, furanyl, pyrrolyl, oxazolyl, isoxazolyl, triazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, morpholinyl, oxadiazolyl, and thiadiazolyl;

R^{15a} and R^{15a}, at each occurrence, are selected from H,

C₁₋₆ alkyl, C₃₋₆ cycloalkyl, and (CH₂)_rphenyl
substituted with 0-3 R^{15e};

5

- alternatively, R^{15a} and R^{15a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{15h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;
- 20 R^{15b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;
- R^{15d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
 - R^{15e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and
 - $\ensuremath{\text{R}^{15f}},$ at each occurrence, is selected from H, and $\ensuremath{\text{C}_{1\text{-}5}}$ alkyl.

[10] In another embodiment, the present invention provides novel compounds of formula (I-ii), wherein:

K is selected from CH2 and CHR5;

5

L is CHR⁵;

- R^3 is selected from a C_{3-10} carbocyclic residue substituted with 0-3 R¹⁵, wherein the carbocyclic 10 residue is selected from cyclopropyl, cyclopentyl, cyclohexyl, phenyl, naphthyl and adamantyl, and a (CR3'H)_r-heterocyclic system substituted with 0-3 R¹⁵, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl. 15 benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, indolyl, 20 indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and
- 25 R^{15} , at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F, $(CH_2)_rNR^{15}aR^{15}a'$, NO_2 , CN, OH, $(CH_2)_rOR^{15}d$, $(CH_2)_rC(O)R^{15}b$, $(CH_2)_rC(O)NR^{15}aR^{15}a'$, $(CH_2)_rNR^{15}fC(O)R^{15}b$, $(CH_2)_rNR^{15}fC(O)C(CHR')_rR^{15}d$, $(CH_2)_rOC(O)NR^{15}aR^{15}a'$, $(CH_2)_rS(O)_pR^{15}b$, $(CH_2)_rS(O)_2NR^{15}aR^{15}a'$, $(CH_2)_rNR^{15}fS(O)_2R^{15}b$, $(CH_2)_rDhenyl$ substituted with 0-3 $R^{15}e$, and a $(CH_2)_r-5-6$ membered heterocyclic system containing

1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e}, wherein the heterocyclic system is selected from tetrazolyl, piperidinyl, pyrrolidinyl, imidazolyl, thiazolyl, pyrazolyl, pyridyl, thienyl, furanyl, pyrrolyl, oxazolyl, isoxazolyl, triazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, morpholinyl, oxadiazolyl, and thiadiazolyl;

- 10 R^{15a} and $R^{15a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;
- alternatively, R^{15a} and R^{15a'}, along with the N to which
 they are attached, join to form a 5-6 membered
 heterocyclic system containing 1-2 heteroatoms
 selected from NR^{15h}, O, and S and optionally fused
 with a benzene ring or a 6-membered aromatic
 heterocycle;

 R^{15b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with

 $0-3 R^{15e};$

5

- 25 R^{15d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
- R^{15e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and
 - R^{15f} , at each occurrence, is selected from H, and C_{1-5} alkyl

[11] In another embodiment, the present invention provides novel compounds of formula (I), wherein the compound of formula (I) is:

5

G is selected from CH2 and C=O;

L is CHR⁵;

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- B is selected from piperidine, tetrahydropyran, tetrahydrothiopyran, pyrrolidinyl, tetrahydrofuranyl, tetrahydrothiophenyl, tetrahydrothiophene 1-oxide, and tetrahydrothiophene 1,1-dioxide;
- R³ is selected from phenyl substituted with 1-2 R¹⁵,

 -CH₂-CH₂-morpholin-1-yl substituted with 1-2 R¹⁵,

 indazolyl substituted with 1-2 R¹⁵, pyrazolyl

 substituted with 1-2 R¹⁵ or thiazolyl substituted

 with 1-2 R¹⁵;
 - R^5 is selected from a CH_2 -phenyl substituted with 1-2 R^{16} ;

25

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 R^9 is selected from H, C_{2-6} alkyl substituted with 0-3 R^{9a} , wherein the alkyl is selected from methyl, ethyl, propyl, i-propyl, butyl, i-butyl, s-butyl, t-butyl, neo-pentyl; $-CH_2CH=CH_2$; $-CH_2C\equiv CH$; 2-fluoroethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl, $(CH_2)_rC(0)C_{1-6}$ alkyl substituted

with 0-2 R^{9j}, wherein the alkyl is selected from methyl, ethyl, propyl, i-propyl, butyl, t-butyl; C(0)Omethyl, C(0)Ot-butyl, SO₂methyl, SO₂ethyl, SO₂propyl, SO₂i-propyl, SO₂t-butyl, SO₂CF₃, (CH₂)_rC(0)NR^{9d}R^{9d}; (CH₂)_rC(0)R^{9'}, (CH₂)_rC(0)NR^{9d}R^{9'}, (CH₂)_rS(0)₂R^{9'}, R^{9'}, and (CH₂)_rS(0)₂NR^{9d}R^{9'};

5

- R9', at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl, wherein the cycloalkyl is 10 selected from cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR') rphenyl substituted with 0-3 R^{9c} , (CHR'), 5-6 membered heterocycle system containing 1-4 heteroatoms selected from N, O, and S, substituted with $0-3 R^{9c}$, wherein the 15 heterocycle is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl, tetrahydrothiopyranyl dioxide, thiophene, imidazolyl, pyrrolidinyl, pyrrolyl, thiazolyl, and furanyl, and (CHR')rphenyl 20 substituted with 0-3 R9c;
- R^{9a} , at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, S(O)_p-methyl, S(O)_p-ethyl, S(O)_p-propyl, and $NR^{9d}R^{9d'}$;
 - R^{9c}, at each occurrence, is selected from methyl, ethyl,
 propyl, C(0)-methyl, C(0)O-t-butyl;
- 30 R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, methyl, ethyl, propyl, i-propyl, butyl, t-butyl;

R^{9j}, at each occurrence, is selected from O-methyl, O-ethyl, and NR^{9d}R^{9d'};

- R¹⁵ is selected from Me, CF₃, OMe, OCF₃, F, Cl, Br, OH,

 OMe, C(0)Me, CH(OH)Me, CN, CO₂Me, CO₂Et, SO₂NH₂,

 NHC(0)Me, C(0)NH₂, C(0)NHMe, C(0)NHCH₂CH₂OMe,

 C(0)piperidinyl, C(0)pyrrolidinyl, C(0)morpholinyl,

 and a 5-6 membered heterocyclic system, wherein the

 heterocyclic system is selected from tetrazolyl,

 indazolyl, pyrazolyl, triazolyl, morpholinyl, and

 thiazolyl, the heterocyclic system substituted with

 0-2 R^{15e};
- R^{15e} is selected from methyl, ethyl, propyl, i-propyl, cyclopropylmethyl, acetyl, and t-butoxycarbonyl;
 - R¹⁶ is selected from F, Cl, Br, and I;
- 20 [12] In another embodiment, the present invention provides novel compounds of formula (I), wherein the compounds are selected from:
- (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-25 fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1carboxylic acid t-butyl ester;
- 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}
 urea;

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(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-
carbonyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl)-
phenyl]-ureido}-piperidine-1-carboxylic acid t-
butyl ester;
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- 5
 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-îH-tetrazol-5-yl)-phenyl]-urea;
- 10 1-{1-(2,2-Dimethyl-propionyl)-3-[(3R,4R)-3-((S)-4fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-{1-Acety1-3-[(3R,4R)-3-((S)-4-fluoro-benzyl)piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-1-methyl-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 5-(3-{(3R,4R)-1-tert-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester;
- 5-(3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidin-4-yl}-ureido)-indazole-1carboxylic acid t-butyl ester;
- (3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]piperidine-1-carboxylic acid t-butyl ester;

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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-urea;
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- 5 (3R,4S)-3-[3-(3-acetyl-phenyl)-ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester;
- 1-(3-acetyl-phenyl)-3-{(3R,4R)-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-3-yl}-urea;
- (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester;
 - 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
- 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-urea;
- 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-4-30 yl}-urea;
 - 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-isobutyl-piperidin-4-yl}-urea;
- 35 (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl)-

phenyl]-ureido}-piperidine-1-carboxylic acid tbutyl ester;

- 1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 5-(3-{(3R,4R)-1-t-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-y2)} = 10 ureido)-indazole-1-carboxylic acid t-butyl ester;
 - 5-(3-{(3S,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester;
- 15
 (3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid t-butyl ester;
- 20 1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
- (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-25 fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1carboxylic acid t-butyl ester;
 - 1-(3-acetyl-phenyl)-3-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
 - (3S, 4R) -4-[3-(3-acetyl-phenyl)-ureido] -3-[(S) -3-(4fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1carboxylic acid t-butyl ester;
- 35 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-urea;

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(3R, 4R) - 4 - [3 - (3 - acetyl - phenyl) - ureido] - 3 - [(S) - 3 - (4 - acetyl - phenyl)]
                             fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
                             carboxylic acid methyl ester;
     5
               1-(3-acetyl-phenyl)-3-{(3R,4R)-1-(2,2-dimethyl-
                             propionyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                             ylmethyl]-piperidin-4-yl}-urea;
                (3R, 4S) -3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
   10
                             [(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-
                             piperidine-1-carboxylic acid t-butyl ester;
               1-(3-acetyl-phenyl)-3-{(3S, 4R)-3-[(S)-3-(4-fluoro-
                             benzyl)-piperidin-1-ylmethyl]-1-(2-fluoro-ethyl)-
  15
                            piperidin-4-yl}-urea;
               1-(3-acetyl-phenyl)-3-\{(3R,4R)-3-[(S)-3-(4-fluoro-
                            benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-propyl)-
                            piperidin-4-yl}-urea;
  20
              1-(3-acetyl-phenyl)-3-{(3R,4S)-4-[(S)-3-(4-fluoro-
                            benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-3-
                           yl}-urea;
 25
              1-\{(3R,4S)-1-Acetyl-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-\{(S)-3-(4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-4-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6-fluoro-benzyl)-4-((S)-6
                           piperidin-1-ylmethyl]-piperidin-3-yl}-3-(3-acetyl-
                           phenyl)-urea;
             1-\{(3R, 4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-
30
                          piperidin-1-ylmethyl]-piperidin-4-yl}-3-(1-methyl-
                           1H-tetrazol-5-yl)-urea;
            1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-methyl-piperidin-4-yl}-3-(1-methyl-1H-
35
                          tetrazol-5-yl)-urea;
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1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-(1-
          methyl-1H-tetrazol-5-yl)-urea;
 5
    1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
          carbonyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-[3-(1-
         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
     1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
10
          carbonyl]-1-(2-fluoro-ethyl)-piperidin-4-yl}-3-[3-
          (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
    1-\{(3R, 4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
         carbonyl]-1-trifluoromethanesulfonyl-piperidin-4-
15
         yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
    1-(3-Acetyl-phenyl)-3-\{(2S,3R)-2-[(S)-3-(4-fluoro-
         benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-
         vl}-urea;
20
    1-\{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-
         ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
         tetrazol-5-yl)-phenyl]-urea;
25
    1-\{(2S, 3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-
         ylmethyl]-tetrahydro-pyran-3-yl}-3-(5-acetyl-4-
         methyl-thiazol-2-yl)-urea;
    1-(3-Acetyl-phenyl)-3-\{(2S,3R)-2-[(S)-3-(4-fluoro-
30
         benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-
         yl}-urea;
    1-\{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
         carbonyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
35
         tetrazol-5-yl)-phenyl]-urea;
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1-\{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
          carbony1]-tetrahydro-pyran-3-y1}-3-(5-acety1-4-
          methyl-thiazol-2-yl)-urea;
 5
     1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methyl-piperidin-4-yl}-3-(5-acetyl-4-
          methyl-thiazol-2-yl)-urea;
10
     1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-4-fluoro-benzyl)-4-fluoro-benzyl)
          piperidin-1-ylmethyl]-piperidin-4-yl}-3-(5-acetyl-
          4-methyl-thiazol-2-yl)-urea;
     1-(5-Acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
15
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
          isobutyryl-piperidin-4-yl}-urea;
     1-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-(5-
20
          acetyl-4-methyl-thiazol-2-yl)-urea;
    1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-(2-fluoroethyl)-piperidin-4-yl}-3-(5-
          acetyl-4-methyl-thiazol-2-yl)-urea;
25
    1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-1-(2-oxopropyl)-piperidin-4-yl}-3-(5-
         acetyl-4-methyl-thiazol-2-yl)-urea;
30
    1-(3-Acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
         benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-4-
         yl}-urea;
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1-\{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidin-1-
                            ylmethyl]-tetrahydro-pyran-4-yl}-3-[3-(1-methyl-1H-
                            tetrazol-5-yl)-phenyl]-urea;
    5
              1-\{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidin-1-
                            ylmethyl]-tetrahydro-pyran-4-yl}-3-(5-acetyl-4-
                           methyl-thiazol-2-yl)-urea;
              1-(3-Acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
 10
                           benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-4-
                           yl}-urea;
              1-\{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidine-1-
                            carbonyl]-tetrahydro-pyran-4-yl}-3-[3-(1-methyl-1H-
 15
                            tetrazol-5-yl)-phenyl]-urea;
             1-\{(3R, 4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidine-1-
                           carbonyl]-tetrahydro-pyran-4-yl}-3-(5-acetyl-4-
                           methyl-thiazol-2-yl)-urea;
 20
             1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-piperidin-4-yl}-3-(4-fluoro-phenyl)-urea;
              25
                           ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-
                          piperidine-1-carboxylic acid t-butyl ester;
             1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-4((3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-4((3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-4((3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-3-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-(4-fluoro-benzyl)-1-4((S)-
                          piperidin-1-ylmethyl]-piperidin-4-yl}-3-(4-fluoro-
30
                          phenyl)-urea;
            1-{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-methyl-piperidin-4-yl}-3-(4-fluoro-
                          phenyl)-urea;
35
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1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-ethyl-piperidin-4-yl}-3-(4-fluoro-
          phenyl)-urea;
 5
     1-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
          4-yl}-3-(4-fluoro-phenyl)-urea;
     2-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
10
          ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-piperidin-
          1-y1}-N-isopropyl-acetamide;
     1-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-(4-
15
          fluoro-phenyl)-urea;
     1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
          benzyl)-piperidin-1-ylmethyl]-[1,4']bipiperidinyl-
          4-yl}-urea;
20
     1-\{(3R, 4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-[1,4']bipiperidinyl-4-yl}-3-
          (3-acetyl-phenyl)-urea;
25
    1-(3-acetyl-phenyl)-3-\{(3R,4R)-3-[(S)-3-(4-fluoro-
          benzyl)-piperidin-1-ylmethyl]-1'-methyl-
          [1,4']bipiperidinyl-4-yl}-urea;
     1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
30
          benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
     (3R, 4R) -3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-4-[3-(3,5-diacetyl-phenyl)-ureido]-
         piperidine-1-carboxylic acid t-butyl ester;
35
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1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
yl}-urea;
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- 5 1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-4-yl}-urea;
- 1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-ethyl-piperidin-4-yl}-urea;
- 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-4-yl}-urea;
 - 2-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidin-1ylmethyl]-4-[3-(3,5-diacetyl-phenyl)-ureido]piperidin-1-yl}-N-isopropyl-acetamide;

1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-propargylpiperidin-4-yl}-urea;

20

- 25 (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-ureido}-piperidine-1-carboxylic acid methyl ester;
- 30 1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-5-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- (3R, 4R) -3-[(S) -3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-

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yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-
                          butyl ester;
             1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-benzyl)-1-((S)-4-fluoro-ben
   5
                          piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-methyl-
                          5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-methyl-piperidin-4-yl}-3-[3-methyl-5-
 10
                           (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-ethyl-piperidin-4-yl}-3-[3-methyl-5-(1-
                          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 15
            1-{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
                          4-y1}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-
                          phenyl]-urea;
20
            2-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-
                         yl)-phenyl]-ureido}-piperidin-1-yl}-N-isopropyl-
                          acetamide;
25
            1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-[3-
                         methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
30
            1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-piperidin-4-yl}-3-[3-bromo-5-(1-methyl-
                         1H-tetrazol-5-yl)-phenyl]-urea;
            (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
35
                         ylmethyl]-4-{3-[3-bromo-5-(1-methyl-1H-tetrazol-5-
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yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-
                          butyl ester;
             1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benz
   5
                          piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-bromo-5-
                           (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-1-methyl-piperidin-4-yl}-3-[3-bromo-5-(1-
10
                          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-1-ethyl-piperidin-4-yl}-3-[3-bromo-5-(1-
                          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
15
             1-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
                           4-y1}-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-
                          phenyl]-urea;
20
             2-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-4-{3-[3-bromo-5-(1-methyl-1H-tetrazol-5-
                          yl)-phenyl]-ureido}-piperidin-1-yl}-N-isopropyl-
                          acetamide;
25
            1-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-[3-bromo-
                          5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
30
            1-[(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl]-3-[3-(1-
                         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
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1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-(1-
          methyl-pyrazol-3-yl)-urea;
 5
    1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-
          (thiazol-2-yl)-urea;
     2-\{3-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
10
         ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl]-ureido}-
          4-methyl-thiazole-5-carboxylic acid ethyl ester;
     (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
         ylmethyl]-4-(5-acetyl-4-methyl-thiazol-2-yl)-
15
         ureido}-piperidine-1-carboxylic acid methyl ester;
     (3R, 4R) -4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3-
          [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
         piperidine-1-carboxylic acid 3-hydroxy-2,2-
20
         dimethyl-propyl ester;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
         propionyl-piperidin-4-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
         cyclopropanecarbonyl-3-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
30
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
         cyclopentanecarbony1-3-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                                           (tetrahydro-pyran-4-carbonyl)-piperidin-4-yl]-urea;
      5
                    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                                        methoxy-acetyl)-piperidin-4-yl]-urea;
                    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
 10
                                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                                         dimethylamino-acetyl)-piperidin-4-yl]-urea;
                     (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (3 - yl) - (3 - 
                                          [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
 15
                                        piperidine-1-carboxylic acid methylamide;
                     (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 - (5 - acetyl - 4 - methyl - 4 
                                         [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                        piperidine-1-carboxylic acid dimethylamide;
20
                    (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 -
                                         [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                       piperidine-1-carboxylic acid ethylamide;
25
                   1-(5-acetyl-4-methyl-thiazol-2-y1)-3-{(3S, 4R)-1-ethyl-3-}
                                        [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                       piperidin-4-yl}-urea;
                   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3S, 4R)-3-[(S)-3-
30
                                        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-propyl-
                                       piperidin-4-yl}-urea;
                  1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-1]}
                                        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
35
                                       isopropyl-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                                             cyclobutyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                            vlmethyl]-piperidin-4-vl}-urea:
      5
                      1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                                             cyclopentyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                            ylmethyl]-piperidin-4-yl}-urea;
  10
                      1-(5-acety1-4-methy1-thiazo1-2-y1)-3-[(3R,4R)-3-[(S)-3-
                                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                                             (tetrahydro-pyran-4-yl)-piperidin-4-yl]-urea;
                      1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
  15
                                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                                             (tetrahydro-thiopyran-4-yl)-piperidin-4-yl]-urea;
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(1,1-4)}
                                            dioxo-hexahydro-1\lambda 6-thiopyran-4-yl)-3-[(S)-3-(4-
 20
                                            fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
                                           yl}-urea;
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-
25
                                            [1,4']bipiperidinyl-4-yl}-urea;
                      (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (5 - acetyl - 4 - methyl - 4 - methyl
                                            [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl)-
                                            [1,4']bipiperidinyl-1'-carboxylic acid tert-butyl
30
                                          ester;
                    1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fl
                                         piperidin-1-ylmethyl]-[1,4']bipiperidinyl-4-yl}-3-
                                           (5-acetyl-4-methyl-thiazol-2-yl)-urea;
35
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1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1'-methyl-
          [1,4']bipiperidinyl-4-yl}-urea;
 5
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
          cyclopropylmethyl-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
10
          cyclobutylmethyl-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-benzyl-
          3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
15
         piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-2-
         ylmethyl-piperidin-4-yl}-urea;
20
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-3-
         ylmethyl-piperidin-4-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-((3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiophen-
         2-ylmethyl-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
30
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiophen-
         3-ylmethyl-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-imidazol-
35
         2-ylmethyl-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-imidazol-
          4-ylmethyl-piperidin-4-yl}-urea;
 5
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R, 4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-
          2-ylmethyl-piperidin-4-yl}-urea;
10
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
          [1,2,4]oxadiazol-3-ylmethyl-piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
15
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         hydroxyethyl)-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-{(S)-3-}}
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
20
         hydroxy-2-methylpropyl)-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         hydroxy-3,3,3-trifluoropropyl)-piperidin-4-yl}-
25
         urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         methoxy-ethyl)-piperidin-4-yl}-urea;
30
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
         ethoxy-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-
         1-ylmethyl]-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R, 4R)-1-(2-yl)}
          ethylsulfanyl-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
 5
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
          ethanesulfonyl-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
10
          acetoxy-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
          cyanomethyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
15
          ylmethyl]-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
          dimethylamino-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
20
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
          diethylamino-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         pyrrolidin-1-yl-ethyl)-piperidin-4-yl]-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
30
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         morpholin-1-yl-ethyl)-piperidin-4-yl]-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
35
         pyrrol-1-yl-ethyl)-piperidin-4-yl]-urea;
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1-(5-acety1-4-methy1-thiazo1-2-y1)-3-[(3R,4R)-3-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(3-oxo-
                           butyl)-piperidin-4-yl]-urea;
    5
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                           methyl-3-oxo-butyl)-piperidin-4-yl]-urea;
 10
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(3-
                          hydroxypropyl)-piperidin-4-yl]-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-{(S)-3-}}
 15
                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(S)-3-
                          hydroxy-2-methylpropyl]-piperidin-4-yl}-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(R)-3-
20
                          hydroxy-2-methylpropyl]-piperidin-4-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(3,3-4)}
                          dimethyl-2-oxo-butyl)-3-[(S)-3-(4-fluoro-benzyl)-
                         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
25
            2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-
                         ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-piperidin-1-yl}-N-methyl-acetamide;
30
            2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-met
                         ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-piperidin-1-yl}-N-isopropyl-acetamide;
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2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-methyl-1-4-meth
                                                             ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                            ylmethyl]-piperidin-1-yl}-N-tert-butyl-acetamide;
        5
                              2-\{(3R, 4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl-1-methyl
                                                             ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                            ylmethyl]-piperidin-1-yl}-N,N-dimethyl-acetamide;
                               1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
  10
                                                              (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-
                                                             cyclopentyl)-piperidin-4-yl]-urea;
                               1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-allyl-3-}
                                                              [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
  15
                                                            piperidin-4-yl}-urea;
                              1-(5-acetyl-4-methyl-thiazol-2-yl)-3-((3R,4R)-3-[(S)-3-
                                                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-prop-2-
                                                           ynyl-piperidin-4-yl}-urea;
  20
                             1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                           ylmethyl]-piperidin-3-yl}-3-(4-fluoro-phenyl)-urea;
                             1-\{(3R, 4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl
 25
                                                          piperidin-1-ylmethyl]-piperidin-3-yl}-3-(4-fluoro-
                                                          phenyl) -urea;
                             1-[(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                          ylmethyl]-1-(2-methoxy-acetyl)-piperidin-3-yl]-3-
 30
                                                            (4-fluoro-phenyl)-urea;
                           1-\{(3R,4S)-1-cyclopropylmethyl-4-[(S)-3-(4-fluoro-
                                                         benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(4-
                                                          fluoro-phenyl)-urea;
35
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1-[(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-

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ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-3-(4-
                              fluoro-phenyl)-urea;
    5
              1-(3-acetyl-phenyl)-3-[(3R,4S)-4-[(S)-3-(4-fluoro-
                              benzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-acetyl)-
                             piperidin-3-yl]-urea;
               1-(3-acetyl-phenyl)-3-{(3R,4S)-1-(2-dimethylamino-
 10
                              acetyl)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                             ylmethyl]-piperidin-3-yl}-urea;
               (3R, 4S) - 3 - [3 - (3 - acetyl - phenyl) - ureido] - 4 - [(S) - 3 - (4 - acetyl - phenyl)]
                              fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
 15
                              carboxylic acid ethylamide;
              1-(3-acetyl-phenyl)-3-[(3R,4S)-4-[(S)-3-(4-fluoro-
                             benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-ethyl)-
                             piperidin-3-y1]-urea;
20
              (3R, 4S) - 4 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
                             ylmethyl] -3 - (3 - (3 - (1 - methyl - 1H - tetrazol - 5 - yl) -
                             phenyl]-ureido}-piperidine-1-carboxylic acid tert-
                            butyl ester;
25
             1-\{(3R, 4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl
                            piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-(1-
                            methyl-1H-tetrazol-5-yl)-phenyl]-urea;
30
             1-\{(3R,4S)-1-(2,2-dimethyl-propionyl)-4-[(S)-3-(4-1)]
                             fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-
                            yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
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1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                            ylmethyl]-1-methyl-piperidin-3-yl}-3-[3-(1-methyl-
                                                              1H-tetrazol-5-yl)-phenyl]-urea;
        5
                              1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                            ylmethyl]-piperidin-3-yl}-3-[3-methyl-5-(1-methyl-
                                                             1H-tetrazol-5-yl)-phenyl]-urea;
                              1-[(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
  10
                                                            ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-3-[3-
                                                            methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                              1-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-3-
                                                              {(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
  15
                                                            ylmethyl]-piperidin-3-yl}-urea;
                              1-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-3-
                                                              [(3R, 4S) - 4 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - fluoro - benzyl) - piperidin - 1 - fluoro - benzyl)
                                                           ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-urea;
  20
                            1-\{(3R, 4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl
                                                           piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-(5-
                                                           methyl-tetrazol-1-yl)-phenyl]-urea;
25
                            1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)
                                                          piperidin-1-ylmethyl]-piperidin-3-yl}-3-(1-methyl-
                                                         pyrazol-3-yl)-urea;
                           1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)
30
                                                         piperidin-1-ylmethyl]-piperidin-3-yl}-3-(thiazol-2-
                                                         yl)-urea;
                          2-(3-{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-}
                                                         piperidin-1-ylmethyl]-piperidin-3-yl}-ureido)-4-
```

methyl-thiazole-5-carboxylic acid ethyl ester;

35

```
1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-
         3'-y1}-urea;
 5
     (3R, 4S) -3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
         [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
         piperidine-1-carboxylic acid methyl ester;
10
     (3R, 4S) -3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
          [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
         piperidine-1-carboxylic acid tert-butyl ester;
    1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-
15
         piperidin-1-ylmethyl]-piperidin-3-yl}-3-(5-acetyl-
         4-methyl-thiazol-2-yl)-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
20
         propionyl-piperidin-3-yl}-urea;
    (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         methyl-propionyl)-piperidin-3-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2,2-1)}
         dimethyl-propionyl)-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
30
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R, 4S)-1-}
         cyclopropanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
                    cyclobutanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
                    piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
   5
          1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
                    cyclopentanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
                    piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
          1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
 10
                    cyclohexanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
                    piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
          1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                     (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
 15
                    (tetrahydro-pyran-4-carbonyl)-piperidin-3-yl}-urea;
          1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4S)-4-[(S)-3-
                    (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                    methoxy-acetyl)-piperidin-3-yl}-urea;
20
         1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2-yl)}
                    dimethylamino-acetyl)-4-[(S)-3-(4-fluoro-benzyl)-
                    piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
25
          (3R, 4S) - 3 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 4 -
                    [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                   piperidine-1-carboxylic acid methylamide;
         (3R, 4S) -3 -[3 -(5 -a -(5 -a -(5 -a -(5 -a -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5) -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5 -(5
30
                    [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                   piperidine-1-carboxylic acid ethylamide;
         (3R, 4S) -3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
                   [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
35
                   piperidine-1-carboxylic acid propylamide;
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(3R, 4S) - 3 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 4 -

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[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                             piperidine-1-carboxylic acid isopropylamide;
     5
               (3R, 4S) -3 -[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
                              [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                             piperidine-1-carboxylic acid allylamide;
 10
               (3R, 4S) -3 -[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
                             [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                             piperidine-1-carboxylic acid (5-acetyl-4-methyl-
                             thiazol-2-yl)-amide;
. 15
              1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-4-[(S)-3-4-1])}
                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-
                            piperidin-3-yl}-urea;
              1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
 20
                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                             [1,4']bipiperidinyl-3-yl}-urea;
              1-\{(3R,4S)-1'-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl
                            piperidin-1-ylmethyl]-[1,4']bipiperidinyl-3-yl}-3-
25
                             (5-acetyl-4-methyl-thiazol-2-yl)-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1'-methyl-
                            [1,4']bipiperidinyl-3-yl}-urea;
30
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
                           cyclopropylmethyl-4-[(S)-3-(4-fluoro-benzyl)-
                           piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4S)-4-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
          (tetrahydro-pyran-2-ylmethyl)-piperidin-3-yl]-urea;
 5
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-2-
         ylmethyl-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
10
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-3-
         ylmethyl-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
15
         [1,2,4] oxadiazol-3-ylmethyl-piperidin-3-yl}-urea;
    (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         fluoro-ethyl)-piperidin-3-yl}-urea;
20
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         hydroxy-ethyl)-piperidin-3-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2-yl)}
         ethanesulfonyl-ethyl)-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R, 4S)-1-}
30
         cyanomethy1-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-piperidin-3-yl}-urea;
    1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
35
         hydroxy-propyl)-piperidin-3-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                                              (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(S)-2-
                                            hydroxy-2-methyl-propyl]-piperidin-3-yl}-urea;
     5
                      1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4S)-4-{(S)-3-}}
                                              (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(R)-2-
                                            hydroxy-2-methyl-propyl]-piperidin-3-yl}-urea;
 10
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                                              (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-
                                            propyl)-piperidin-3-yl}-urea;
                     2-\{(3R, 4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-met
 15
                                            ureido] -4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                            ylmethyl]-piperidin-1-yl}-N,N-dimethyl-acetamide;
                     1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                            ylmethyl]-1-isobutyryl-piperidin-3-yl}-3-[3-(1-
 20
                                            methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                     1-\{(3R,4S)-1-benzoyl-4-\{(S)-3-(4-fluoro-benzyl)-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl\}-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1-\{(3R,4S)-1-benzyl]-1
                                           piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-(1-
                                           methyl-1H-tetrazol-5-yl)-phenyl]-urea;
25
                    1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                           ylmethyl]-1-(propane-2-sulfonyl)-piperidin-3-yl}-3-
                                            [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
30
                    1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                           ylmethyl]-piperidin-3-yl}-3-(2-morpholin-4-yl-
                                           ethyl)-urea;
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(3R, 4S) - 4 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - fluoro - benzyl)
                           ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
                          piperidine-1-carboxylic acid methyl ester;
             1-\{(3R, 4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl
                          piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
                          morpholin-4-yl-ethyl)-urea;
             1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
 10
                          ylmethyl]-1-propionyl-piperidin-3-yl}-3-(2-
                          morpholin-4-yl-ethyl)-urea;
             1-\{(3R,4S)-1-(2,2-dimethyl-propionyl)-4-[(S)-3-(4-insert)]
                           fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-
 15
                          y1}-3-(2-morpholin-4-yl-ethyl)-urea;
             1-\{(3R,4S)-1-\text{cyclobutane} \text{carbony} 1-4-[(S)-3-(4-\text{fluoro-})]
                          benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
                          morpholin-4-yl-ethyl)-urea;
20
            1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-(tetrahydro-pyran-4-carbonyl)-
                          piperidin-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea;
25
            1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-(2-methoxy-acetyl)-piperidin-3-yl}-3-
                          (2-morpholin-4-yl-ethyl)-urea;
             (3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
30
                         ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
                         piperidine-1-carboxylic acid dimethylamide;
            (3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
35
                         piperidine-1-carboxylic acid ethylamide;
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1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-1-methanesulfonyl-piperidin-3-yl}-3-(2-
         morpholin-4-yl-ethyl)-urea;
 5
     1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-1-methyl-piperidin-3-yl}-3-(2-morpholin-
         4-yl-ethyl)-urea;
10
    1-{(3R,4S)-1-ethyl-4-[(S)-3-(4-fluoro-benzyl)-piperidin-
         1-ylmethyl]-piperidin-3-yl}-3-(2-morpholin-4-yl-
         ethyl)-urea;
    1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
15
         ylmethyl]-1-isopropyl-piperidin-3-yl}-3-(2-
         morpholin-4-yl-ethyl)-urea;
    1-\{(3R,4S)-1-cyclopropylmethyl-4-[(S)-3-(4-fluoro-
         benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
20
         morpholin-4-yl-ethyl)-urea;
    1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-1-(2-oxo-propyl)-piperidin-3-yl}-3-(2-
         morpholin-4-yl-ethyl)-urea;
25
    1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
         tetrazol-5-yl)-phenyl]-urea;
    1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
30
         ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-methyl-5-(1-
         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
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- 5 (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-piperidine-1-carboxylic acid methyl ester;
- 1-{(3R,4R)-1-(2-dimethylamino-acetyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4yl}-3-(4-fluoro-phenyl)-urea;
 - 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-(4-fluoro-phenyl)-urea;
- 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-3-(4-fluoro-phenyl)-urea;
 - 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
- 20 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
- 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-morpholin-4-yl-ethyl)-piperidin-4yl]-3-(4-fluoro-phenyl)-urea;
 - 1-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;

(3R,4R)-4~[3-(3,5-diacetyl-phenyl)-ureido]-3-[(S)-3-(4-
fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
carboxylic acid methyl ester;

- 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-1-(2-dimethylaminoacetyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-4-yl}-urea;
 - 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-urea;
- 10 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-1-(1,1-dioxo-hexahydro-1λ6-thiopyran-4-yl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
- 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-urea;
 - 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-ethyl)piperidin-4-yl]-urea;
- 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-urea;
 - 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-(2-morpholin-4-ylethyl)-piperidin-4-yl]-urea;
- 25 1-(3,5-diacetyl-phenyl)-3-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-urea;
 - (3R, 4R) -3-[(S) -3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-4-(3-[3-methyl-5-(1-methyl-1H-tetrazol-5-

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yl)-phenyl]-ureido}-piperidine-1-carboxylic acid methyl ester;
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- 1-{(3R,4R)-1-(2-dimethylamino-acetyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-[3methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-[3methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]urea;
 - (3R, 4R) -3-[(S) -3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-4-{3-[3-bromo-5-(1-methyl-1H-tetrazol-5-

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yl)-phenyl]-ureido}-piperidine-1-carboxylic acid
methyl ester;
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1-{(3R,4R)-1-(2-dimethylamino-acetyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4yl}-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)phenyl]-urea;

5

- 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-[3bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-25 ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]urea;
- (3R,4S)-3-(3-benzyl-ureido)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid tert-butyl ester;

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1-benzyl-3-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
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(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-3-[3-(tetrahydro-pyran-4-ylmethyl)ureido]-piperidine-1-carboxylic acid tert-butyl
ester;

5

- 1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-3-yl}-3-(tetrahydro-pyran-4ylmethyl)-urea;
- 10 (3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-3-{3-[2-(tetrahydro-pyran-4-yl)-ethyl]-ureido}-piperidine-1-carboxylic acid tert-butyl ester;
- 1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-3-yl}-3-[2-(tetrahydro-pyran-4yl)-ethyl]-urea;
 - 1-{(3S,4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 20 1-{(3S,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1ylmethyl]-tetrahydro-pyran-3-yl}-3-[5-acetyl-4-25 methylthiazol-2-yl]-urea;
 - 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1 ylmethyl]-tetrahydro-pyran-3-yl}-3-(3 acetylphenyl)-urea;

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1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-
    ylmethyl]-tetrahydro-pyran-3-yl}-3-(2-morpholin-4-
    yl-ethyl)-urea;
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- 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[5acetyl-4-methylthiazol-2-yl]-urea;
 - 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- - $1-(5-acetyl-4-methyl-thiazol-2-yl)-3-\{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-1,1-dioxotetrahydro-1\(\lambda 6-thiophen-3-yl \)-urea;$
- 1-{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-20 carbonyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-(2morpholin-4-yl-ethyl)-urea;
 - (3S,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)phenyl]-ureido}-pyrrolidine-1-carboxylic acid tertbutyl ester;
 - $1-(5-acetyl-4-methylthiazol-2-yl)-3-\{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-pyrrolidin-3-yl\}-urea.$
- In another embodiment, the present invention 30 provides a pharmaceutical composition, comprising a

pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of the present invention.

In another embodiment, the present invention provides a method for modulation of chemokine receptor activity comprising administering to a patient in need thereof a therapeutically effective amount of a compound of the present invention.

10

15

In another embodiment, the present invention provides a method for treating inflammatory disorders comprising administering to a patient in need thereof a therapeutically effective amount of a compound of the present invention

In another embodiment, the present invention provides a method for treating or preventing disorders selected from asthma, allergic rhinitis, atopic

20 dermatitis, inflammatory bowel diseases, idiopathic pulmonary fibrosis, bullous pemphigoid, helminthic parasitic infections, allergic colitis, eczema, conjunctivitis, transplantation, familial eosinophilia, eosinophilic cellulitis, eosinophilic pneumonias,

25 eosinophilic fasciitis, eosinophilic gastroenteritis, drug induced eosinophilia, HIV infection, cystic fibrosis, Churg-Strauss syndrome, lymphoma, Hodgkin's disease, and colonic carcinoma.

In another embodiment, the present invention provides a method for treating or preventing disorders

selected from asthma, allergic rhinitis, atopic dermatitis, and inflammatory bowel diseases.

In another embodiment, the present invention provides a method for treating or preventing asthma.

In another embodiment, the compound of Formula (I)

In another embodiment, the compound of Formula (I)

In another embodiment, J is CH_2 , K is selected from CH_2 and CHR^5 , and L is selected from CH_2 and CHR^5 ,

15 wherein at least one of K or L contains an R⁵.

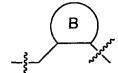
In another embodiment, K is CH₂.

In another embodiment, L is CH₂.

20

In another embodiment, Z is selected from O, S, NCN, and NCONH2.

In another embodiment, E is



In another embodiment, E is

In another embodiment, Ring B is piperidine,

tetrahydropyran, tetrahydrothiopyran,
tetrahydrothiopyran 1,1-dioxide, piperidin-2-one,
tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide,
pyrrolidine, tetrahydrofuran, tetrahydrothiophene,
pyrrolidin-2-one, dihydrofuran-2-one, and
isothiazolidine 1,1-dioxide.

In another embodiment, Ring B is piperidine, tetrahydropyran, tetrahydrothiopyran, tetrahydrothiopyran, tetrahydrothiopyran 1,1-dioxide, piperidin-2-one, tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, pyrrolidin-2-one, dihydrofuran-2-one, and isothiazolidine 1,1-dioxide.

In another embodiment, Ring B is piperidine and tetrahydropyran.

In another embodiment, R^1 and R^2 are H.

In another embodiment, R³ is selected from a (CR³'H)_r-carbocyclic residue substituted with 0-5 R¹⁵, wherein the carbocyclic residue is selected from phenyl, C₃₋₆ cycloalkyl, naphthyl, and adamantyl; and a (CR³'H)_r-heterocyclic system substituted with 0-3 R¹⁵, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzothiazolyl, benzothiophenyl, benzofuranyl,

benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl,
imidazolyl, indolyl, indolinyl, isoindolyl,
isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl,
1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl,
5 thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and
pyrimidinyl.

In another embodiment, R³ is selected from a methyl substituted with 0-2 R^{10} , C_{2-8} alkyl substituted with 0-10 2 \mathbb{R}^7 , a \mathbb{C}_{3-10} carbocyclic residue substituted with 0-3 \mathbb{R}^{15} , wherein the carbocyclic residue is selected from cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, phenyl, naphthyl and adamantyl, and a $(CR^{3}'H)_{r}$ heterocyclic system substituted with $0-3\ R^{15}$, wherein 15 the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, isoindolyl, 20 isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl.

In another embodiment, R³ is selected from a phenyl substituted with 0-2 R¹⁵; and a (CH₂)_r-5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R¹⁵, wherein the heterocyclic system is selected from pyridinyl, morpholinyl, pyrazolyl, indazolyl, thiazolyl and r is 0, 1, or 2.

In another embodiment, R^5 is selected from $(CR^5'H)_t$ -phenyl substituted with 0-5 R^{16} ; and a $(CR^5'H)_t$ -

heterocyclic system substituted with 0-3 R¹⁶, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, 5 benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl.

In another embodiment, R⁵ is selected from a CH₂-C₃₋₁₀ carbocyclic residue substituted with 1-5 R¹⁶ and a heterocyclic system substituted with 0-3 R¹⁵, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl.

In another embodiment, R^5 is CH_2 -phenyl substituted with 0-3 R^{16} .

In another embodiment, R^9 is selected from H, CH_3 , C_{2-6} alkyl substituted with 0-3 R^{9a} , C_{3-8} alkenyl, C_{3-8} alkynyl, C_{1-3} haloalkyl, $(CH_2)_rC(0)C_{1-6}$ alkyl substituted with 0-2 R^{9j} , $(CH_2)_rC(0)OC_{1-6}$ alkyl substituted with 0-3 R^{9b} , $(CH_2)_rC(0)NR^{9d}R^{9d}$, $(CH_2)_rS(0)_2C_{1-6}$ alkyl, $S(0)_2C_{1-6}$ trifluoromethyl,

 $(CH_2)_rC(0)R^{9'}$, $(CH_2)_rC(0)NR^{9d}R^{9'}$, $(CH_2)_rS(0)_2R^{9'}$, $R^{9'}$, and $(CH_2)_rS(0)_2NR^{9d}R^{9'}$;

- R^{9} ', at each occurrence, is independently selected from 5 $(CHR')_rC_{3-6}$ cycloalkyl substituted with 0-3 R^{9e} , wherein the cycloalkyl is selected from cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR') rphenyl substituted with 0-3 R9c, (CHR'),5-6 membered heterocycle system containing 10 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R9c, wherein the heterocycle is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl, tetrahydrothiopyranyl 15 dioxide, thiophene, imidazolyl, pyrrolidinyl, pyrrolyl, thiazolyl, and furanyl, and (CHR'), phenyl substituted with 0-3 R9c;
- R^{9a} , at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, S(O)_p-methyl, S(O)_p-ethyl, S(O)_p-propyl, and $NR^{9d}R^{9d}$;
- R^{9b}, at each occurrence, is selected from cyclopropyl,
 cyclbutyl, cyclpentyl, CN, CF₃, CH₂-OC₁₋₅ alkyl,
 CH₂-OH, CH₂-SC₁₋₅ alkyl, and CH₂-NR^{9d}R^{9d'};

provided that if R^{9c} is attached to a carbon attached to the nitrogen on Ring B, then R^{9c} is selected from $(CH_2)_qOH$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_qS(O)_qC_{1-5}$ alkyl, and $(CH_2)_qNR^{9d}R^{9d'}$;

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- R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, methyl, ethyl, propyl, i-propyl, butyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and phenyl;
- R^{9e} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1} , C_{2} , C_{2} , C_{2} , C_{2} , C_{1} , C_{1} , C_{2} , C_{2}
- 15 $(CH_2)_rC(O)NR^{9d}R^{9d'}$, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d'}$, or alternatively, two R^{9e} on the same carbon atom form =0; and
- 20 R^{9j}, at each occurrence, is selected from cyclpropyl, cyclobutyl, cyclopentyl, CN, CF₃, O-methyl, O-ethyl, O-propyl, O-i-propyl, O-butyl, OH, S-methyl, S-ethyl, and NR^{9d}R^{9d}.
- In another embodiment, R⁹ is selected from H, C₂₋₆ alkyl substituted with 0-3 R^{9a}, wherein the alkyl is selected from methyl, ethyl, propyl, i-propyl, butyl, i-butyl, s-butyl, t-butyl, neo-pentyl; CH₂CH=CH₂; -CH₂C≡CH; 2-fluoroethyl, 2,2-
- difluoroethyl, 2,2,2-trifluoroethyl, $(CH_2)_rC(0)C_{1-6}$ alkyl substituted with 0-2 R^{9j} , wherein the alkyl is selected from methyl, ethyl, propyl, i-propyl, butyl, t-butyl; C(0)0methyl, C(0)0t-butyl,

SO₂methyl, SO₂ethyl, SO₂propyl, SO₂i-propyl, SO₂t-butyl, SO₂CF₃, (CH₂)_rC(O)NR^{9d}R^{9d}'; (CH₂)_rC(O)R^{9'}, (CH₂)_rC(O)NR^{9d}R^{9'}, (CH₂)_rS(O)₂R^{9'}, R^{9'}, and (CH₂)_rS(O)₂NR^{9d}R^{9'};

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- R9', at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl, wherein the cycloalkyl is selected from cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR')_rphenyl substituted with 0-3
 R9c, (CHR')_r5-6 membered heterocycle system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R9c, wherein the heterocycle is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl dioxide, thiophene, imidazolyl, pyrrolidinyl, pyrrolyl, thiazolyl, and furanyl, and (CHR')_rphenyl
- 20 R^{9a} , at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, S(O)_p-methyl, S(O)_p-ethyl, S(O)_p-propyl, and $NR^{9d}R^{9d'}$;

substituted with 0-3 R9c;

- 25 R^{9c}, at each occurrence, is selected from methyl, ethyl, propyl, C(0)-methyl, C(0)0-t-butyl;
- R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, methyl, ethyl, propyl, i-propyl, butyl, t-butyl;
 - R^{9j} , at each occurrence, is selected from O-methyl, O-ethyl, and $NR^{9d}R^{9d'}$.

The invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof. This invention also encompasses all combinations of preferred aspects of the invention noted herein. It is understood that any and all embodiments of the present invention may be taken in conjunction with any other embodiment to describe additional even more preferred embodiments of the present invention. Furthermore, any elements of an embodiment are meant to be combined with any and all other elements from any of the embodiments to describe additional embodiments.

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DEFINITIONS

15 The compounds herein described may have asymmetric centers. Compounds of the present invention containing an asymmetrically substituted atom may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as by resolution of racemic forms or by synthesis from 20 optically active starting materials. Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present 25 invention. Cis and trans geometric isomers of the compounds of the present invention are described and may be isolated as a mixture of isomers or as separated isomeric forms. All chiral, diastereomeric, racemic forms and all geometric isomeric forms of a structure 30 are intended, unless the specific stereochemistry or isomeric form is specifically indicated.

The term "substituted," as used herein, means that any one or more hydrogens on the designated atom is replaced with a selection from the indicated group, provided that the designated atom's normal valency is

not exceeded, and that the substitution results in a stable compound. When a substitution is keto (i.e., =0), then 2 hydrogens on the atom are replaced.

When any variable (e.g., R^a) occurs more than one time in any constituent or formula for a compound, its definition at each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2 R^a, then said group may optionally be substituted with up to two R^a groups and R^a at each occurrence is selected independently from the definition of R^a. Also, combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

15 When a bond to a substituent is shown to cross a bond connecting two atoms in a ring, then such substituent may be bonded to any atom on the ring. When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of a given formula, then such substituent may be bonded via any atom in such substituent.

Combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

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As used herein, "C₁₋₈ alkyl" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms, examples of which include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, i-butyl, sec-butyl, t-butyl, pentyl, and hexyl. C₁₋₈ alkyl, is intended to include C₁, C₂, C₃, C₄, C₅, C₆, C₇, and C₈ alkyl groups. "Alkenyl" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more unsaturated carbon-carbon bonds which may occur in any stable point along the

chain, such as ethenyl, propenyl, and the like.

"Alkynyl" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more unsaturated triple carbon-carbon bonds which may occur in any stable point along the chain, such as ethynyl, propynyl, and the like. "C3-6 cycloalkyl" is intended to include saturated ring groups having the specified number of carbon atoms in the ring, including mono-, bi-, or poly-cyclic ring systems, such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, and cycloheptyl in the case of C7 cycloalkyl. C3-6 cycloalkyl, is intended to include C3, C4, C5, and C6 cycloalkyl groups

"Halo" or "halogen" as used herein refers to

15 fluoro, chloro, bromo, and iodo; and "haloalkyl" is
intended to include both branched and straight-chain
saturated aliphatic hydrocarbon groups, for example CF₃,
having the specified number of carbon atoms, substituted
with 1 or more halogen (for example -C_vF_w where v = 1 to

20 3 and w = 1 to (2v+1)).

As used herein, the term "5-6-membered cyclic ketal" is intended to mean 2,2-disubstituted 1,3-dioxolane or 2,2-disubstituted 1,3-dioxane and their derivatives.

As used herein, "carbocycle" or "carbocyclic residue" is intended to mean any stable 3, 4, 5, 6, or 7-membered monocyclic or bicyclic or 7, 8, 9, 10, 11, 12, or 13-membered bicyclic or tricyclic, any of which may be saturated, partially unsaturated, or aromatic.

30 Examples of such carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, adamantyl, cyclooctyl,; [3.3.0]bicyclooctane, [4.3.0]bicyclononane, [4.4.0]bicyclodecane (decalin), [2.2.2]bicyclooctane,

fluorenyl, phenyl, naphthyl, indanyl, adamantyl, or tetrahydronaphthyl (tetralin).

As used herein, the term "heterocycle" or "heterocyclic system" or "heterocyclic ring" is intended 5 to mean a stable 5, 6, or 7-membered monocyclic or bicyclic or 7, 8, 9, or 10-membered bicyclic heterocyclic ring which is saturated, partially unsaturated or unsaturated (aromatic), and which consists of carbon atoms and 1, 2, 3, or 4 heteroatoms 10 independently selected from the group consisting of N. NH, 0 and S and including any bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The nitrogen and sulfur heteroatoms may optionally be oxidized. The heterocyclic ring may be 15 attached to its pendant group at any heteroatom or carbon atom which results in a stable structure. heterocyclic rings described herein may be substituted on carbon or on a nitrogen atom if the resulting compound is stable. If specifically noted, a nitrogen 20 in the heterocycle may optionally be quaternized. preferred that when the total number of S and O atoms in the heterocycle exceeds 1, then these heteroatoms are not adjacent to one another. As used herein, the term "aromatic heterocyclic system" is intended to mean a 25 stable 5- to 7- membered monocyclic or bicyclic or 7- to 10-membered bicyclic heterocyclic aromatic ring which consists of carbon atoms and from 1 to 4 heterotams independently selected from the group consisting of N, O and S.

Examples of heterocycles include, but are not limited to, 1H-indazole, 2-pyrrolidonyl, 2H,6H-1,5,2-dithiazinyl, 2H-pyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazole, 4H-quinolizinyl, 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl,

benzthiazolyl, benztriazolyl, benztetrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazalonyl, carbazolyl, 4aH-carbazolyl, β-carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 2H, 6H-1,5,2dithiazinyl, dihydrofuran-2-one, dihydrofuro[2,3b]tetrahydrofuran, furanyl, furazanyl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-indazolyl, indolenyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindolinyl, isoindolyl, 10 isoquinolinyl (benzimidazolyl), isothiazolidine 1,1dioxide, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoguinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl, oxazolyl, 15 oxazolidinylperimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidin-2-one, piperidinyl, pteridinyl, piperidonyl, 4-piperidonyl, pteridinyl, 20 purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidin-2-one, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinazolinyl, quinolinyl, 4H-quinolizinyl, quinoxalinyl, 25 quinuclidinyl, carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydropyranyl (THP), tetrahydroquinolinyl, tetrahydropyran-2-one, tetrahydrothiophenyl, 1-oxo-hexahydro-1λ4-thiopyranyl, 1,1-dioxo-hexahydro- $1\lambda^6$ -thiopyranyl, 30 tetrahydrothiopyranyl (THTP), 6H-1,2,5-thiadiazinyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5thiadiazolyl, 1,3,4-thiadiazolyl, thianthrenyl, 1,1dioxo- $1\lambda^6$ - [1,2]thiazinanyl, thiazolyl, thienyl, thienothiazolyl, thienooxazolyl, thienoimidazolyl,

thiophenyl, triazinyl, 1,2,3-triazolyl, 1,2,4-triazolyl,

1,2,5-triazolyl, 1,3,4-triazolyl, tetrazolyl, and xanthenyl. Preferred heterocycles include, but are not limited to, pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiaphenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, isoidolyl, piperidinyl, piperidonyl, 4-piperidonyl, piperonyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiazolyl, oxazolyl, pyrazinyl, pyrimidinyl, 10 tetrahydropyranyl, tetrahydrothiopyranyl, 1-oxohexahydro- $1\lambda^4$ -thiopyranyl, 1,1-dioxo-hexahydro- $1\lambda^6$ thiopyranyl, piperidin-2-one, tetrahydropyran-2-one, 1,1-dioxo- $1\lambda^{6}$ -[1,2]thiazinanyl, pyrrolidinyl, tetrahydrofuranyl, tetrahydrothiophenyl, pyrrolidin-2one, dihydrofuran-2-one, and isothiazolidine 1,1-15 dioxide. Also included are fused ring and spiro compounds containing, for example, the above heterocycles.

The phrase "pharmaceutically acceptable" is
20 employed herein to refer to those compounds, materials,
compositions, and/or dosage forms which are, within the
scope of sound medical judgment, suitable for use in
contact with the tissues of human beings and animals
without excessive toxicity, irritation, allergic
25 response, or other problem or complication, commensurate
with a reasonable benefit/risk ratio.

As used herein, "pharmaceutically acceptable salts" refer to derivatives of the disclosed compounds wherein the parent compound is modified by making acid or base salts thereof. Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic salts of acidic residues such as carboxylic acids; and the like. The pharmaceutically acceptable salts include the conventional non-toxic

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salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pamoic, maleic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, sulfamilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like.

The pharmaceutically acceptable salts of the 15 present invention can be synthesized from the parent compound which contains a basic or acidic moiety by conventional chemical methods. Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the 20 appropriate base or acid in water or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in Remington's Pharmaceutical 25 Sciences, 17th ed., Mack Publishing Company, Easton, PA, 1985, p. 1418, the disclosure of which is hereby incorporated by reference.

Since prodrugs are known to enhance numerous desirable qualities of pharmaceuticals (e.g., solubility, bioavailability, manufacturing, etc...) the compounds of the present invention may be delivered in prodrug form. Thus, the present invention is intended to cover prodrugs of the presently claimed compounds, methods of delivering the same and compositions containing the same. "Prodrugs" are intended to include

any covalently bonded carriers which release an active parent drug of the present invention in vivo when such prodrug is administered to a mammalian subject. Prodrugs the present invention are prepared by modifying functional groups present in the compound in such a way 5 that the modifications are cleaved, either in routine manipulation or in vivo, to the parent compound. Prodrugs include compounds of the present invention wherein a hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug of the present 10 invention is administered to a mammalian subject, it cleaves to form a free hydroxyl, free amino, or free sulfhydryl group, respectively. Examples of prodrugs include, but are not limited to, acetate, formate and 15 benzoate derivatives of alcohol and amine functional groups in the compounds of the present invention.

As used herein, "treating" or "treatment" cover the treatment of a disease-state in a mammal, particularly in a human, and include: (a) preventing the disease-state from occurring in a mammal, in particular, when such mammal is predisposed to the disease-state but has not yet been diagnosed as having it; (b) inhibiting the disease-state, i.e., arresting it development; and/or (c) relieving the disease-state, i.e., causing regression of the disease state.

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"Stable compound" and "stable structure" are meant to indicate a compound that is sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture, and formulation into an efficacious therapeutic agent.

SYNTHESIS

The compounds of Formula I can be prepared using the reactions and techniques described below. The reactions are performed in a solvent appropriate to the

reagents and materials employed and suitable for the transformations being effected. It will be understood by those skilled in the art of organic synthesis that the functionality present on the molecule should be consistent with the transformations proposed. sometimes require a judgment to modify the order of the synthetic steps or to select one particular process scheme over another in order to obtain a desired compound of the invention. It will also be recognized 10 that another major consideration in the planning of any synthetic route in this field is the judicious choice of the protecting group used for protection of the reactive functional groups present in the compounds described in this invention. An authoritative account describing the 15 many alternatives to the trained practitioner is Greene and Wuts (Protective Groups In Organic Synthesis, Wiley and Sons, 1999).

Generally, compounds described in the scope of this patent application can be synthesized by the route described in Schemes 1, 2 or 3. In all schemes, P is a suitable protecting group as described in Greene and Wuts, Protective Groups in Organic Synthesis, 3rd edition, John Wiley & Sons, New York. In Scheme 1, the appropriately substituted pyrrolidine (n=0) or piperidine (n=1) 1 is alkylated by a N-protected alkylhalide (halide = Cl, Br, I), mesylate, tosylate or triflate, 2, (where E represents a linkage described within the scope of this application in its fully elaborated form with the appropriate protecting groups as understood by one skilled in the art or in a precursor form which can be later elaborated into its final form by methods familiar to one skilled in the art) with or without base or an acid scavenger to yield the piperidinyl- or pyrrolidinylalkyl protected amine 3. If the halide is not I, then KI can also be added to

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facilitate the displacement, provided the solvent is suitable, such as an alcohol, 2-butanone, DMF or DMSO, amongst others. The displacement can be performed at room temperature to the reflux temperature of the solvent. The protecting group is subsequently removed to yield amine 4. Protecting groups include phthalimide which can be removed by hydrazine, a reaction familiar to one skilled in the art; bis-BOC which can be removed by either TFA or HCl dissolved in a suitable solvent, both procedures being familiar to one skilled in the 10 art; a nitro group instead of an amine which can be reduced to yield an amine by conditions familiar to one skilled in the art; 2,4-dimethyl pyrrole (S. P. Breukelman, et al. J. Chem. Soc. Perkin Trans. I, 1984, 2801); N-1,1,4,4-Tetramethyl-disilylazacyclopentane 15 (STABASE) (S. Djuric, J. Venit, and P. Magnus Tet. Lett 1981, 22, 1787) and other protecting groups. Reaction with an isocyanate or isothiocyanate 5 (Z = 0,S) yields urea or thiourea 6. Reaction with a chloroformate or 20 chlorothioformate 7 (Z=0,S) such as o-, p-nitrophenylchloroformate or phenylchloroformate (or their thiocarbonyl equivalents), followed by displacement with an amine 9, also yields the corresponding urea or thiourea $\underline{6}$. Likewise, reaction of carbamate $\underline{8}$ (X = H, or 2- or 4-NO2) with disubstituted amine 10 yields 25 trisubstituted urea or thiourea 12. Reaction of the amine 4 with an N, N-disubstituted carbamoyl chloride 11 (or its thiocarbonyl equivalent) yields the corresponding N,N-disubstituted urea or thiourea 12. 30 Amine 4 can also be reductively aminated with aldehyde 13 to yield 14 by conditions familiar to one skilled in the art and by the following conditions: Abdel-Magid, A. F., et al. Tet. Lett. 1990, 31, (39) 5595-5598. secondary amine can subsequently be reacted with 35 isocyanates or isothiocyanates to yield trisubstituted

ureas <u>15</u> or with carbamoyl chlorides to yield tetrasubstituted ureas <u>16</u>.

One can also convert amine 4 into an isocyanate, isothiocyanate, carbamoyl chloride or its thiocarbonyl equivalent (isocyanate: Nowakowski, J. J Prakt. Chem/Chem-Ztg 1996, 338 (7), 667-671; Knoelker, H.-J.et al., Angew. Chem. 1995, 107 (22), 2746-2749; Nowick, J. S.et al., J. Org. Chem. 1996, 61 (11), 3929-3934; Staab,

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H. A.; Benz, W.; Angew Chem 1961, 73; isothiocyanate: Strekowski L.et al., J. Heterocycl. Chem. 1996, 33 (6), 1685-1688; Kutschy, Pet al., Synlett. 1997, (3), 289-290) carbamoyl chloride: Hintze, F.; Hoppe, D.; Synthesis (1992) 12, 1216-1218; thiocarbamoyl chloride: Ried, W.; Hillenbrand, H.; Oertel, G.; Justus Liebigs Ann Chem 1954, 590) (these reactions are not shown in Scheme 1). These isocyanates, isothiocyanates, carbamoyl chlorides or thiocarbamoyl chlorides can then be reacted with R²R³NH to yield di- or trisubstituted 10 ureas or thioureas 12. An additional urea forming reaction involves the reaction of carbonyldiimidazole (CDI) (Romine, J. L.; Martin, S. W.; Meanwell, N. A.; Epperson, J. R.; Synthesis 1994 (8), 846-850) with $\underline{4}$ 15 followed by reaction of the intermediate imidazolide with 9 or in the reversed sequence (9 + CDI, followed by 4). Activation of imidazolide intermediates also facilitates urea formation (Bailey, R. A., et al., Tet. Lett. 1998, 39, 6267-6270). One can also use 14 and 1020 with CDI. The urea forming reactions are done in an aprotic inert solvent such as THF, toluene, DMF, etc., at room temperature to the reflux temperature of the solvent and can employ the use of an acid scavenger or base when necessary such as carbonate and bicarbonate 25 salts, triethylamine, DBU, Hunig's base, DMAP, etc. Scheme 2 describes the synthesis of compounds with an carbonyl linking the appropriately substituted pyrrolidine (n=0) or piperidine (n=1) $\underline{1}$ and B. carboxylic acid 17 is used, a wide variety of 30 dehydrating coupling reagents may be used to prepare the amide 198 from amine 1. A review of the possible reaction conditions was prepared by Y. S. Klausner and M. Bodansky in Synthesis 1972, 9, 453-463. Additional references by E. Gross and J. Meienhofer can be found in 35 the monograph series The Peptides, 4 vols.; Academic

Press: New York, 1979-1983. Alternatively the acid chloride 18 can be prepared from carboxylic acid 17 via thionyl chloride or oxalyl chloride among other reagents (see Ansell in S. Patai, The Chemistry of Carboxylic Acids and Esters, Wiley Interscience: New York 1969, 35-68) and then coupled with amine 1 to give amide 19. Deprotection of amide 19 gives the required intermediate amine 20, which can be further elaborated to the final products by the procedures outlined in Scheme 1.

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Scheme 2

An alternative coupling of a alkyl linkage to the appropriately substituted pyrrolidine (n=0) or piperidine (n=1) 1 and B uses an reductive amination sequence (Abdel-Magid, A. F., et al. Tet. Lett. 1990, 31, (39) 5595-5598) shown in Scheme 3. The appropriately protected aldehyde 21 is reacted with amine 1 and the resulting imine is reduced with sodium triacetoxyborohyride. Alternative hydride sources such as sodium cyanoborohydride may also be used.

Deprotection of protected amine 22 gives the required

10 Deprotection of protected amine <u>22</u> gives the required intermediate amine 23, which can be further elaborated to the final products by the procedures outlined in Scheme 1.

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Substituted pyrrolidines and piperidines 1 can either be obtained commercially or be prepared as shown in the example of Scheme 4. Commercially available N-benzylpiperid-3-one 24 can be debenzylated and protected with a BOC group employing reactions familiar to one skilled in the art. Subsequent Wittig reaction followed by reduction and deprotection yields piperidine 28 employing reactions familiar to one skilled in the art. Substituted pyrrolidines may be made by a similar reaction sequence. Other isomers and analogs around the piperidine ring can also be made by a similar reaction

sequence. Chiral pyrrolidines/piperidines can be synthesized via asymmetric hydrogenation of <u>18</u> using chiral catalysts (see Parshall, G.W. Homogeneous Catalysis, John Wiley and Sons, New York: 1980, pp. 43-45; Collman, J.P., Hegedus, L.S. Principles and Applications of Organotransition Metal Chemistry, University Science Books, Mill Valley, CA, 1980, pp. 341-348).

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Guanidines (Z=NR^{1a}) can be synthesized by the methods outlined in Scheme 5. Compound 29 where Z=S can 15 be methylated to yield the methylisothiourea 30. Displacement of the SMe group with amines yields substituted guanidines 31 (see H. King and I. M. Tonkin J. Chem. Soc. 1946, 1063 and references therein). Alternatively, reaction of thiourea 29 with amines in the presence of triethanolamine and "lac sulfur" which facilitates the removal of H2S yields substituted guanidines <u>31</u> (K. Ramadas, Tet. Lett. 1996, 37, 5161 and references therein). Finally, the use of carbonimidoyldichloride 32, or 33 followed by sequential 25 displacements by amines yields the corresponding substituted guanidine 31 (S. Nagarajan, et al., Syn.

Comm. 1992, 22, 1191-8 and references therein). In a similar manner, carbonimidoyldichlorides, $R^2-N=C(C1)_2$ (not shown in Scheme 5) and $R^3-N=C(C1)_2$ (not shown) can also be reacted sequentially with amines to yield diamond trisubstituted guanidine 23.

Scheme 5

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Schemes 6 through 30 and Scheme 43 describe the syntheses of the variety of heterocyclic linkers, B. The protecting groups shown in the following schemes were chosen to maximize the utility of intermediates in a variety of schemes and may be interchanged with other compatible groups. While the synthesis of only one enantiomer is shown, the chiral precursors are available in both forms and therefore any isomer can be made from commercially available starting materials.

Scheme 6 describes the preparation of 2,3-disubstituted piperidines. The aspartic acid 34 can be

exhaustively protected with benzyl bromide and the betacarbon can be alkylated with allyl bromide to give the amino ester 35 as a mixture of diastereomers. Hydroboration can provide the alcohol 36 (H. C. Brown, 5 J. C. Chen; J. Org. Chem. 1981, 46, 3978), with can be oxidized to an aldehyde (K. Omura, D. Swerm; Tet. Lett. 1978, 34, 1651) and the benzyl groups removed by catalytic hydrogenation. The intermediate aminoaldehyde cyclizes to an imine which can be further reduced to an 10 aminoacid. Coupling this aminoacid with BOP-Cl (Castro, B.; Dormoy, J. R.; Evin, G.; Selve, C. Tet. Lett. 1975, 14, 1219) and the corresponding cyclic amine can give amide 37. Acidic hydrolysis of the ester, Boc protection of the amine, Curtius rearrangement via dppa 15 (Deng, J.; Hamada, Y.; Shioiri, T. Tet. Lett. 1996, 37, 2261) can provide the amine 38. To prepare the methylene derivative, borane reduction of amine 38 can give amine 39.

20 Scheme 6

For the synthesis of 3,4-disubstituted piperidines, the sequence shown in Scheme 7 can be used. Following a procedure using an analog of a cyclohexanone derivative (Hayashi, Y.; Rohde, J. J.; Corey, E. J. J. Am. Chem. 5 1996, 118(23), 5502), the imine of 4ketopiperidine 40 can be prepared by heating with (R)alpha-methyl benzylamine with Dean-Stark trapping. Reduction with sodium triacetoxyborohyride can give the cis-amino ester 42. Epimerization can give the trans 10 derivative 43. Hydrogenolysis of the benzyl group and protection as a benzyl carbamate 44 can provide a common intermediate for the hydrolysis and coupling to prepare amide 45 after deprotection. Alternatively, the ester 15 can reduced to an alcohol, oxidized to an aldehyde, reductively aminated and deprotected to give amine 46.

In a very similar manner, ketopiperidine <u>47</u> can be converted to amide <u>52</u> or amine <u>53</u> as shown in Scheme 8.

5 The synthesis of 2,3-disubstituted dihydropyrans is described in Scheme 9. Starting with diol 54, monoprotection and oxidation (Siedlecka, R.; Skarzewski, J.k; Mlochowski, J.; Tet. Lett. 1990, 31(15), 2177) can give acid 55. Acylation of the chiral auxiliary 10 mediated by pivaloyl chloride can give oxazolinone 57. Sparteine-mediated aldol condensation with cinnamaldehyde sets up the required stereochemistry in alcohol 58 (Crimmins, M. T.; King, B. W.; Tabet, E. A.; J. Am. Chem. Soc. 1997, 119(33), 7883). Fluoride 15 deprotection, triflate-mediated cyclization and lithium peroxide removal of the auxiliary can provide dihydropyran 59. Curtius rearrangement in the presence of t-butanol can produce the required protected amine.

Oxidation with ozone and quenching with dimethyl sulfide can give the aldehyde <u>61</u>. Oxidation of aldehyde 61 with TEMPO can give carboxylic acid <u>60</u>.

5 Scheme 9

Scheme 10 describes the synthesis of 3,4-10 disubstituted dihydropyrans. Coupling of oxazolinone 56 with cinnamoyl chloride and subsequent boron-mediated aldol condensation (Galatsis, P.; Millan, S. D.; Ferguson, G.; J. Org. Chem. 1997, 62(15), 5048) with aldehyde 62 can give alcohol 63. Lithium borohydride 15 auxiliary removal, protection of the primary alcohol with TBSC1, mesylate formation of the secondary alcohol, displacement of the mesylate with azide and reduction of the azide and protection of the resulting amine can give 64. Ozonolysis followed by reductive workup, mesylate 20 formation of the alcohol, selective fluoride deprotection of the TBMP silyl ether (Guindon, Y.; Fortin, R.; Yaokim, C.; Gillard, J. W.; Tet. Lett. 1984,

25, 4717), and basic cyclization can provide dihydropyran <u>65</u>. Fluoride deprotection followed by Swern oxidation can produce aldehyde <u>66</u> for reductive amination. Alternatively, the alcohol can be oxidized with PDC (Corey, E. J.; Schmidt, G. Tet. Lett. 1979, 5, 399) to acid <u>67</u>.

The preparation of the regioisomeric 3,4-disubstituted dihydropyrans is shown in Scheme 11. One of the key differences between Schemes 11 and 10 is the aldol reaction with the shorter chain aldehyde 68. Instead of ozonolysis, the olefin 70 can be hydroborated, the resulting alcohol can be mesylated, and, after deprotection, undergoes ring closure to give the desired dihydropyran 71. Oxidation can give either 72 or 73.

5 For the corresponding dihydrothiopyrans, advanced precursors from the dihydropyran syntheses were used. Scheme 12 describes the synthesis of 2,3-disubstituted dihydrothiopyrans. Starting with alcohol 58, Lawesson's reagent displaces the hydroxyl with retention of 10 configuration (Eberle, M. K.; Nuninger, F.; Weber, H-P.; J. Org. Chem. 1995, 60(8), 2610). Acidic fluoride deprotection removes the silyl group and catalyzes the cyclization to the dihydrothiopyran. Lithium hydroperoxide removes the chiral auxiliary and oxidizes the sulfur to the sulfone 74. Curtius rearrangement 15 with Boc anhydride and ozonolysis with oxidative workup can give acid 75. Ozonolysis with reductive workup can give aldehyde 76.

Scheme 12

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The preparation of the regioisomeric dihydrothiopyrans can be shown in Scheme 13. Ozonolysis of olefin 64 with reductive workup can provide an alcohol. Selective fluoride deprotection of the TBMP silyl group (discussed with scheme 10), mesylate formation on both alcohols, followed by displacement with sodium sulfide and subsequent ring closure can give sulfide 77. Fluoride deprotection and Swern oxidation can give aldehyde 78. Alternatively, PDC oxidation (Jeong, L. S.; Schinazi, R. F.; Beach, J. W.; Kim, H. O.; Shanmuganathan, K.; J. Med. Chem. 1993, 36(18), 2627) can give acid 79.

Scheme 13

The preparation of the other regioisomeric dihydrothiopyrans can be shown in Scheme 14. Selective fluoride deprotection of the TBMP silyl group on 70 (discussed previously), mesylate formation, can be followed by displacement of the mesylate with sodium sulfide.

Reduction of the olefin initiates ring closure to give sulfide 80 (Aggarwal, V. K.; Ford, J. G.; Fonquerna, S.; Adams, H.; Jones, R. V. H.; Fieldhouse, R.; J. Am. Chem.

Soc. 1998, 120, 30). Fluoride deprotection and Swern oxidation can give aldehyde 81. Alternatively, PDC oxidation can give acid 82.

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Scheme 15 shows the synthesis of the 5,6-disubstituted lactams. Alcohol 36 can be oxidized with PDC to the carboxylic acid, the ester and amine are deprotected by hydrogenolysis, heat can be applied to do a intramolecular cyclization, and the remaining carboxylic acid can be coupled with BOP-Cl with the amine 1 to give amide 83. Acidic ester hydrolysis with trifluoroacetic acid followed by Curtius rearrangement with dppa can provide amine 84.

If the methylene linker can be desired for the 5,6-disubstituted lactams, then the synthesis can be outlined in Scheme 16. Alcohol 36 can be oxidized with PDC to the carboxylic acid, the ester and amine are deprotected by hydrogenolysis, heat can be applied to do a intramolecular cyclization, and the remaining carboxylic acid can be converted to the acid chloride, reduced to the alcohol and protected with the TBDP silyl group to give ester 85. Acidic ester hydrolysis with trifluoroacetic acid, Curtius rearrangement with dppa and Boc protection of the amine, fluoride deprotection and Swern oxidation can provide aldehyde 86.

Scheme 17 describes the synthesis of 3,45 disubstituted lactams. Olefin 64 can be ozonolyzed with
an oxidative workup. The resulting carboxylic acid can
be converted to methyl ester 87 with trimethylsilyl
diazomethane. Selective fluoride deprotection, mesylate
formation, azide displacement of the mesylate, reduction
10 of the azide and concomitant cyclization onto the ester
can provide amide 88. Fluoride deprotection and Swern
oxidation completes the synthesis of aldehyde 89.

Scheme 18 describes the synthesis of 4,5-disubstituted lactams. Ether <u>64</u> can be selectively

deprotected, oxidized to a carboxylic acid and esterified with trimethylsilyl diazomethane to give ester 90. Ozonolysis of the olefin with reductive workup, followed by mesylate formation of the resulting alcohol, azide displacement of the mesylate, reduction of the azide and concomitant cyclization onto the ester can provide amide 91. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 92. Alternatively, oxidation with PDC can give acid 93.

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1) O₃, NaBH₄

Scheme 19 describes the synthesis of regioisomeric 4,5-disubstituted lactams. Olefin 70 can be

hydroborated, the resulting alcohol can be oxidized to a

carboxylic acid and esterified with trimethylsilyl diazomethane to give ester <u>94</u>. Selective fluoride

deprotection, followed by mesylate formation of the resulting alcohol, azide displacement of the mesylate, reduction of the azide and concomitant cyclization onto the ester can provide amide <u>95</u>. Fluoride deprotection

and Swern oxidation completes the synthesis of aldehyde <u>96</u>. Alternatively, oxidation with PDC can give acid <u>97</u>.

Scheme 20 describes the synthesis of regioisomeric 2,3-disubstituted lactams. Ether <u>70</u> can be selectively deprotected, the resulting alcohol can be oxidized to a carboxylic acid and esterified with trimethylsilyl diazomethane to give ester <u>98</u>. Hydroboration, followed by mesylate formation of the resulting alcohol, azide displacement of the mesylate, reduction of the azide and concomitant cyclization onto the ester can provide amide <u>99</u>. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde <u>100</u>. Alternatively, oxidation with PDC can give acid <u>101</u>.

The corresponding lactones are prepared in a series of synthetic schemes that parallel those used to prepare the corresponding lactams. The synthesis of 5,6disubstituted lactones is described in Scheme 21. Starting with ether 58, fluoride deprotection, selective oxidation of the primary alcohol with quinolinium 10 chlorochromate (Singh, J.; Kalsi, Partap S.; Jawanda, G. S.; Chhabra, B. R.; Chem. Ind. 1986, 21, 751), further oxidation of the resulting aldehyde with silver(II) oxide (Corey, E. J.; Gilman, N. W.; Ganem, B. E.; J. Amer. Chem. Soc. 1968, 90(20), 5616), heating to 15 facilitate cyclization, and lithium peroxide cleavage of the auxiliary can provide lactone 102. Curtius rearrangement followed by ozonolysis with a reductive workup give aldehyde 103. Alternatively, an oxidative workup can give acid 104.

Scheme 21

Scheme 22 describes the synthesis of 3,45 disubstituted lactones. Olefin <u>64</u> can be ozonolyzed with an oxidative workup. The TBMP silyl group can be selectively removed with fluoride, the alcohol can be heated and cyclizes with the carboxylic acid to give the lactone <u>105</u>. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde <u>106</u>.

Scheme 22

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Scheme 23 describes the synthesis of 3,4disubstituted lactones. The TBMP silyl group of ether 64

can be selectively removed with fluoride, the alcohol can be oxidized with PDC to a carboxylic acid, and the olefin can be ozonolyzed with an reductive workup to facilitate closure to the lactone 107. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 108. Alternately, the alcohol can be oxidized with PDC to the carboxylic acid 109.

Scheme 24 describes the synthesis of regioisomeric 4,5-disubstituted lactones. Olefin 70 can be hydroborated, the resulting alcohol can be oxidized to a carboxylic acid, the TBMP silyl can be selectively deprotected, and heated to promote cyclization to give amide 110. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 111. Alternatively, oxidation with PDC can give acid 112.

Scheme 24

Scheme 25 describes the synthesis of regioisomeric 3,4-disubstituted lactones. The TBMP silyl group of ether 70 can be selectively removed with fluoride, the alcohol can be oxidized with PDC to a carboxylic acid, and the olefin can be hydroborated and heated to facilitate closure to the lactone 113. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 114. Alternately, the alcohol can be oxidized with PDC to the carboxylic acid 115.

Scheme 25

Scheme 26 shows the synthesis of the 5,6disubstituted sulfonamides. Alcohol 36 can be converted to the thiol with Lawesson's reagent (Nishio, T.; J. Org. Chem. 1997, 62(4), 1106), the thiol can be oxidized 5 with performic acid (Roberts, d. V.; J. biol. Chem. 1953, 204, 871), the benzyl groups were hydrogenolyzed and the mixture heated to facilitate cyclization to sulfonamide 116 (Selve, C.; Neiedercorn, F.; Nacro, M.; 10 Castro, B.; Gabriel, M.; Tetrahedron 1981, 37, 1903). The carboxylic acid can be converted to the acid chloride with oxalyl chloride, reduced with sodium borohyride, and protected as a TBDP silyl ether 117. Acidic ester hydrolysis, Curtius rearrangement with 15 dppa, fluoride deprotection, followed by Swern oxidation can provide aldehyde 118. Alternately, the alcohol can be oxidized with PDC to the carboxylic acid 119.

Scheme 27 describes the synthesis of 3,4-disubstituted sulfonamides. The olefin 64 can be ozonolyzed with reductive workup, the resulting alcohol

can be converted to a thiol, and then oxidized to the sulfonic acid 120. Selective fluoride deprotection, mesylate formation, azide displacement and hydrogenation followed by cyclization can provide sulfonamide 121. Fluoride deprotection and Swern oxidation can give aldehyde 122.

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Scheme 28 describes the synthesis of 4,5-disubstituted sulfonamides. The ether 64 can be selectively fluoride deprotected, the resulting alcohol can be converted to a thiol, and then oxidized to the sulfonic acid 123. Ozonolysis with reductive workup, mesylate formation, azide displacement and hydrogenation followed by cyclization can provide sulfonamide 124. Fluoride deprotection and Swern oxidation can give aldehyde 125. Alternately, the alcohol can be oxidized with PDC to the carboxylic acid 126.

Scheme 29 describes the synthesis of 4,5disubstituted sulfonamides. The olefin 64 can be
hydroborated, the resulting alcohol can be converted to
a thiol, and then oxidized to the sulfonic acid 127.
Selective fluoride deprotection, mesylate formation,
azide displacement and hydrogenation followed by
cyclization can provide sulfonamide 128. Fluoride
deprotection and Swern oxidation can give aldehyde 129.
Alternately, the alcohol can be oxidized with PDC to the
carboxylic acid 130.

Scheme 30 describes the synthesis of 4,5disubstituted sulfonamides. The ether 70 can be
selectively fluoride deprotected, the resulting alcohol
can be converted to a thiol, and then oxidized to the
sulfonic acid 131. Hydroboration of the olefin,

mesylate formation, azide displacement and hydrogenation
followed by cyclization can provide sulfonamide 132.
Fluoride deprotection and Swern oxidation can give
aldehyde 133. Alternately, the alcohol can be oxidized
with PDC to the carboxylic acid 134.

Multisubstituted pyrrolidines and piperidines may 5 be synthesized by the methods outlined in Scheme 31. Monoalkylation of 135 via an enolate using LDA or potassium hexamethyldisilazane, or converting 135 first to an enamine, or by using other bases, all of which can be done in THF, ether, dioxane, benzene, or an 10 appropriate non-hydroxylic solvent at -78 °C to room temperature with an alkylating agent such as methyl iodide, benzyl bromide, etc. where X can be as defined in Scheme 1, yields product 136. This product can subsequently undergo alkylation again under 15 thermodynamic or kinetic conditions and afterwards, if need be, can undergo two more alkylations to produce tri- and tetrasubstituted analogs of 136. thermodynamic or kinetic conditions yield regioselectively alkylated products (for a discussion on 20 thermodynamic vs. kinetic alkylations see H. House Modern Synthetic Reactions, W. A. Benjamin, Inc. (Menlo Park, CA: 1972) chapter 9).

5 Subsequent Wittig olefination yields compound 137. Hydrogenation (asymmetric hydrogenation can be an option here: Parshall, G.W. Homogeneous Catalysis, John Wiley and Sons, New York: 1980, pp. 43-45; Collman, J.P., Hegedus, L.S. Principles and Applications of 10 Organotransition Metal Chemistry, University Science Books, Mill Valley, CA, 1980, pp. 341-348) yields pyrrolidine or piperidine 138 which can be resolved into its relative and/or absolute isomers at this stage or later on in the synthesis either by crystallization, 15 chromatographic techniques, or other methods familiar to one skilled in the art. The amine 138 an then be elaborated into the compounds of this invention by methods discussed previously (Scheme 1). The carbonylcontaining intermediate 136 in Scheme 31 can also be 20 reduced to the methylene analog via a Wolff-Kishner reduction and modifications thereof, or by other methods familiar to one skilled in the art. This piperidine or pyrrolidine can be deprotected and elaborated to the compounds of this invention by methods discussed earlier. Thus, mono-, di-, tri-, or tetraalkylated 25

carbonyl-containing pyrrolidines or piperidines can be synthesized, which in turn can be reduced to the corresponding -CH2- analogs employing the Wolff-Kishner reduction or other methods.

Another method for synthesizing gem-substituted 5 pyrrolidines and piperidines can be shown in Scheme 32. It can be understood by one skilled in the art that some of the steps in this scheme can be rearranged. be also understood that gem-disubstitution can be only 10 shown at only one position on the piperidine ring and that similar transformations may be performed on other carbon atoms as well, both for piperidine and pyrrolidine. Thus, 3-carboethoxypiperidine 139 may be BOC-protected and alkylated employing a base such as 15 LDA, KHMDS, LHDMS, etc., in THF, ether, dioxane, etc. at -78 °C to room temperature, and an alkylating agent R^6X where X can be a halide (halide = Cl, Br, I), mesylate, tosylate or triflate, to yield 141. Reduction using DIBAL, for example, and if necessary followed by 20 oxidation such as a Swern oxidation (S. L. Huang, K. Omura, D. Swern J. Org. Chem. 1976, 41, 3329-32) yields aldehyde 142. Wittig olefination (143) followed by deprotection yields 144 which may be elaborated as described previously into the compounds of this 25 invention. Reduction of the Wittig adduct 143 yields 145 which may be deprotected to yield 146 which may be in turn elaborated as described previously into the compounds of this invention. Reaction of aldehyde 142 with an alkyllithium or Grignard reagent yields alcohol 30 147 which may be reduced catalytically or with Et3SiH/TFA (J. Org. Chem. 1969, 34, 4; J. Org. Chem. 1987, 52, 2226) if R^{5*} ($R^{5*} = R^5$ or a precursor thereof) can be aromatic to yield 148. If R^{5*} can be not aromatic, then the OH may be reduced by the method of 35 Barton (Barton, D. H. R.; Jaszberenyi, J. C. Tet. Lett.

1989, 30, 2619 and other references therein). Once tosylated, the alcohol can also be displaced with dialkyllithium cuprates (not shown) (Hanessian, S.; Thavonekham, B.; DeHoff, B.; J Org. Chem. 1989, 54, 5831). Deprotection if necessary yields 149 which may be elaborated as described previously into the compounds of this invention.

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A method for the alkylation of alkyl groups, arylalkyl groups, allylic groups, propargylic groups, etc., and a variety of other electrophiles onto the

pyrrolidinyl and/or piperidinyl alpha-carbons (alpha to the ring nitrogen atom) can be represented by the work of Peter Beak, et al. as shown in Scheme 33. understood by one skilled in the art that the R^5 and R^{13} groups are either in their precursor, protected, or final form. Only one R⁵ group can be shown to be substituted on piperidine/pyrrolidine 150. However it can be understood by one skilled in the art that additional functionality may be present on the ring in either precursor, protected, or final form. 10 lithiation with an alkyllithium reagent such as n-BuLi or s-BuLi as shown, followed by quenching with an electrophilic species such as R⁵X or R¹³X where X can be as defined in Scheme 1 and \mathbb{R}^5 and \mathbb{R}^{13} are in their 15 precursor, protected, or final form, yields monoalkylated piperidine/pyrrolidine 151. This alkylation may occur either stereoselectively (P. Beak and W.K. Lee J. Org. Chem. 1990, 55, 2578-2580) or enantioselectively if sparteine can be included as a 20 source of chirality (P. Beak, et al., J. Am. Chem. Soc. 1994, 116, 3231-3239). The alkylation process may be repeated up to three more times as shown in Scheme 33 to result in di-, tri-, and tetrasubstitution at the alphapositions.

A method for the synthesis of N-substituted heterocycles at R⁵ can be shown in Scheme 34. heterocycle can be deprotonated with NaH or by other bases familiar to one skilled in the art, in a solvent such as DMF, THF, or another appropriate non-hydroxylic solvent and reacted with piperidine or pyrrolidine 155 at room temperature to the reflux temperature of the 10 solvent. Deprotection and elaboration as described before yields compounds where R⁵ contains an Nsubstituted heterocycle. If the nitrogen atom of the heterocycle can be sufficiently nucleophilic, then an acid scavenger, such as K2CO3, KHCO3, Na2CO3, NaHCO3, 15 amongst others, can be used in place of NaH, employing THF, DMF, or methyl ethyl ketone as solvents.

case hydroxylic solvents may be used as well, such as methanol, etc. from room temperature to the reflux temperature of the solvent. Compound 155 as well as its other positional isomers are available, for example, from commercially available 4-hydroxymethylpiperidine, 2-, 3-, and 4-carboethoxypiperidine, L- or D-proline ethyl ester, or from methyl 1-benzyl-5-oxo-3-pyrrolidinecarboxylate by methods familiar to one skilled in the art and as discussed previously in this application.

X = leaving group
to compounds by
methods described
previously

15 A method for the synthesis of C-substituted heterocycles at R⁵ can be shown in Scheme 35. Many heterocycles such as the ones shown in Scheme 35, but not limited thereto, can be metallated with strong bases such as LDA, n-BuLi, sec-BuLi, t-BuLi, etc. to yield the corresponding anionic species. These anions may also be generated via halogen-metal exchange employing n-BuLi, or other alkyllithium reagents. These reactions may be performed in THF, ether, dioxane, DME, benzene, etc. at -78 °C to room temperature.

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Scheme 34

For reviews of these metallations and halogen-metal
exchange reactions see Organometallics in Organic
Synthesis, FMC Corp., Lithium Division, 1993, pp. 17-39;
Lithium Link, FMC Corp., Spring 1993, pp. 2-17; nButyllithium in Organic Synthesis, Lithium Corp. of
America, 1982, pp. 8-16; G. Heinisch, T. Langer, P.
Lukavsky, J. Het. Chem. 1997, 34, 17-19. The anions can
then be quenched with electrophile 155 or its positional
isomers to yield the corresponding C-alkylated
heterocyclic pyrrolidine or piperidine 157.

Another method for the synthesis of C-substituted 15 heterocyclic-methylpyrrolidines or piperidines can be shown in Scheme 36. The protected aldehyde 158 can be reacted with the anion of the heterocycle (its generation as described previously) at -78 °C to room

temperature with or without CeCl₃ in an inert solvent such as THF, ether, dioxane, DME, benzene, etc. to yield carbinol <u>159</u>. Catalytic hydrogenation of the alcohol yields the corresponding methylene compound <u>157</u>. Other reduction methods include Et₃SiH/TFA (J. Org. Chem. 1969, 34, 4; J. Org. Chem. 1987, 52, 2226) amongst others familiar to one skilled in the art. It can be understood by one skilled in the art that the aldehyde group can be located in other positions instead of, for example, the 4-position of piperidine in compound <u>158</u> as depicted in Scheme 36. It can be to be understood that other heterocycles may also be used besides the ones shown in Scheme 35 and 36.

15 Scheme 36

The anions of the methyl-substituted heterocycles may also be reacted with a BOC-protected piperidone or pyrrolidone (160) to yield alcohols 161 as shown in Scheme 22 (see above reviews on metallations for 5 references). These alcohols may be reduced using PtO2 and TFA (P. E. Peterson and C. Casey, J. Org. Chem. 1964, 29, 2325-9) to yield piperidines and pyrrolidines 162. These can subsequently be taken on to the compounds of this invention as described previously. 10 can be understood by one skilled in the art that the carbonyl group can be located in other positions instead of, for example, the 4-position of piperidine in compound 160 as depicted in Scheme 37. It can be to be understood that other heterocycles may also be used 15 besides the ones shown in Scheme 37.

One may also react aryl (phenyl, naphthyl, etc.) anions, generated either by halogen-metal exchange or by ortho-directed metallation (Snieckus, V. Chem. Rev. 1990, 90, 879-933) using n- or s- or t-BuLi in a non-hydroxylic solvent such as THF, ether, etc., with or without TMEDA and allow them to react with compounds

155, 158, and 160 with subsequent elaboration to yield the compounds of this invention by the methods depicted in Schemes 34-37.

Another method for the preparation of C-substituted 5 heterocycles can be shown in Scheme 38. Protected piperidone 160 undergoes a Wittig reaction with heterocyclic phosphorous ylides to yield 163. Hydrogenation over a noble metal catalyst such as Pd in an alcoholic solvent or with an optically active 10 transition metal catalyst (see asymmetric hydrogenation references of Parshall and Coleman, op. cit.) yields 164 which can be further elaborated into the compounds of this invention by the procedures described previously. It will be appreciated by one skilled in the art that 15 the carbonyl group can be located in other positions instead of, for example, the 4-position of piperidine in compound 160 as depicted in Scheme 38. It can be to be understood that other heterocycles may also be used besides the ones shown in Scheme 38.

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Scheme 38

Syntheses of amines 9, 10, and the amines which are

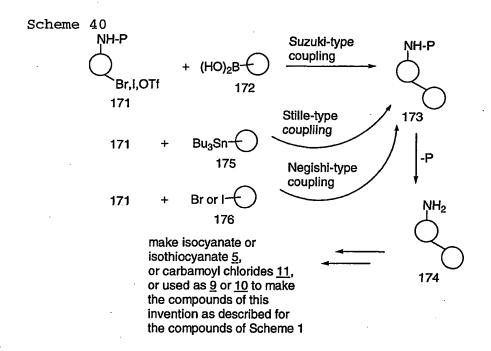
precursors to isocyanates or isothiocyanates 5 will now be discussed. For example, nitrobenzeneboronic acid Scheme 39) can undergo Suzuki couplings (Suzuki, 5 A. Pure Appl. Chem. 1991, 63, 419) with a wide variety of substituted iodo- or bromo aryls (aryls such as phenyl, naphthalene, etc.), heterocycles, alkyls, akenyls (Moreno-manas, M., et al., J. Org. Chem., 1995, 60, 2396), or alkynes. It can also undergo coupling 10 with triflates of aryls, heterocycles, etc. (Fu, J.-m, Snieckus, V. Tet. Lett. 1990, 31, 1665-1668). the above reactions can also undergo carbonyl insertion in the presence of an atmosphere of carbon monoxide (Ishiyama, et al., Tet. Lett. 1993, 34, 7595). These 15 nitro-containing compounds (167 and 169) can then be reduced to the corresponding amines either via catalytic hydrogenation, or via a number of chemical methods such as Zn/CaCl₂ (Sawicki, E. J Org Chem 1956, 21). carbonyl insertion compounds (158) can also undergo 20 reduction of the carbonyl group to either the CHOH or CH2 linkages by methods already discussed (NaBH4 or Et3SiH, TFA, etc.). These amines can then be converted to isocyanate 5 via the following methods (Nowakowski, J. J Prakt Chem/Chem-Ztg 1996, 338 (7), 667-671; Knoelker, H.-J.et al., Angew Chem 1995, 107 (22), 2746-25 2749; Nowick, J. S.et al., J Org Chem 1996, 61 (11), 3929-3934; Staab, H. A.; Benz, W.; Angew Chem 1961, to isothiocyanate 5 via the following methods (Strekowski L.et al., J Heterocycl Chem 1996, 33 (6), 1685-1688; Kutschy, Pet al., Synlett 1997, (3), 289-30 290); to carbamoyl chloride 11 (after 1168 or 170 can be reductively aminated with an R² group) (Hintze, F.; Hoppe, D.; Synthesis (1992) 12, 1216-1218); to thiocarbamoyl chloride 11 (after 168 or 170 can be reductively aminated with an R² group) (Ried, W.; 35

Hillenbrand, H.; Oertel, G.; Justus Liebigs Ann Chem 1954, 590); or just used as 9, or 10 (after 168 or 170 can be reductively aminated with an R² group), in synthesizing the compounds of this invention by the methods depicted in Scheme 1.

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10 Likewise, protected aminobromobenzenes or triflates or protected aminobromoheterocycles or triflates 171 (Scheme 40) may undergo Suzuki-type couplings with arylboronic acids or heterocyclic boronic acids (172). These same bromides or triflates 171 may also undergo 15 Stille-type coupling (Echavarren, A. M., Stille, J.K. J. Am. Chem. Soc., 1987, 109, 5478-5486) with aryl, vinyl, or heterocyclic stannanes 175. Bromides or triflates 171 may also undergo Negishi-type coupling with other

aryl or heterocyclic bromides 176 (Negishi E. Accts. Chem. Res. 1982, 15, 340; M. Sletzinger, et al., Tet. Lett. 1985, 26, 2951). Deprotection of the amino group yields an amine with can be coupled to make a urea and other linkers containing Z as described above and for Scheme 1. Amino protecting groups include phthalimide, 2,4-dimethyl pyrrole (S. P. Breukelman, et al. J. Chem. Soc. Perkin Trans. I, 1984, 2801); N-1,1,4,4-Tetramethyldisilyl-azacyclopentane (STABASE) (S. Djuric, J. Venit, and P. Magnus Tet. Lett 1981, 22, 1787) and others familiar to one skilled in the art.



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Many amines are commercially available and can be used as 9, 10, or used as precursors to isocyanates or isothiocyanates 5. There are numerous methods for the synthesis of non-commercially available amines familiar to one skilled in the art. For example, aldehydes and ketones may be converted to their 0-benzyl oximes and then reduced with LAH to form an amine (Yamazaki, S.;

Ukaji, Y.; Navasaka, K.; Bull Chem Soc Jpn 1986, 59, 525). Ketones and trifluoromethylketones undergo reductive amination in the presence of TiCl4 followed by NaCNBH4 to yield amines (Barney, C.L., Huber, E.W.,

- McCarthy, J.R. Tet. Lett. 1990, 31, 5547-5550).

 Aldehydes and ketones undergo reductive amination with Na(AcO)3BH as mentioned previously to yield amines (Abdel-Magid, A. F., et al. Tet. Lett. 1990, 31, (39) 5595-5598). Amines may also be synthesized from
- aromatic and heterocyclic OH groups (for example, phenols) via the Smiles rearrangement (Weidner, J.J., Peet, N.P. J. Het. Chem., 1997, 34, 1857-1860). Azide and nitrile displacements of halides, tosylates, mesylates, triflates, etc. followed by LAH or other
- types or reduction methods yield amines. Sodium diformyl amide (Yinglin, H., Hongwen, H. Synthesis 1989 122), potassium phthalimide, and bis-BOC-amine anion can all displace halides, tosylates, mesylates, etc., followed by standard deprotection methods to yield
- amines, procedures which are familiar to one skilled in the art. Other methods to synthesize more elaborate amines involve the Pictet-Spengler reaction, imine/immonium ion Diels-Alder reaction (Larsen, S.D.; Grieco, P.A. J. Am. Chem. Soc. 1985, 107, 1768-69;
- Grieco, P.A., et al., J. Org. Chem. 1988, 53, 3658-3662; Cabral, J. Laszlo, P. Tet. Lett. 1989, 30, 7237-7238; amide reduction (with LAH or diborane, for example), organometallic addition to imines (Bocoum, A. et al., J. Chem. Soc. Chem. Comm. 1993, 1542-4) and others all of which are familiar to one skilled in the art.

Compounds where Z = N-CN, $CHNO_2$, and $C(CN)_2$ can be synthesized by the methods shown in Scheme 41. Thus amine $\underline{108}$ reacts with malononitrile $\underline{179}$ neat or in an inert solvent at room temperature to the reflux

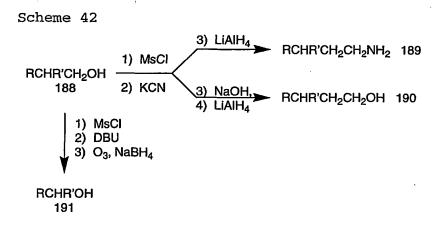
35 temperature of the solvent, or at the melting point of

the solid/solid mixture, to yield malononitrile 178.

This in turn can undergo reaction with amine 177 under similar conditions stated just above to yield molononitrile 181. Likewise, a similar reaction sequence may be used to make 184 and 187 [for Z = C(CN) 2], see for example P. Traxler, et al., J. Med. Chem. (1997), 40, 3601-3616; for Z = N-CN, see K. S. Atwal, J. Med. Chem. (1998) 41, 271; for Z = CHNO2, see J. M. Hoffman, et al., J. Med. Chem. (1983) 26, 140-144).

Additionally, the starting materials in the Schemes 6 through 29 can be modified with an a one-carbon longer or shorter length chain or ring size starting material and be applicable to the synthesis of five and seven-membered ring analogs. In some of the synthetic schemes, an intermediate may be easily modified to lengthen or shorten the chain length as shown in Scheme 42. To homologate alcohol 188, the mesylate can be

displaced with cyanide. Lithium aluminum hydride reduction of the nitrile can give the amine 189. Alternatively, basic hydrolysis of the nitrile and lithium aluminum hydride reduction of the resulting acid can give the alcohol 190. To decrease the chain by one carbon, the mesylate of alcohol 188 can be eliminated to the olefin which upon treatment with ozone and reductive workup can give alcohol 191. In those schemes where an olefin can be hydroborated, to reduce the chain size by one carbon, the hydroboration step may be replaced with ozonolysis with an reductive workup (not shown in Scheme 42).



Scheme 43 describes the synthesis of carbamate- and urea-containing heterocycles. Olefin 70 can undergo ozonolysis with reductive workup, mesylate formation, azide displacement and catalytic reduction to give amine 192. Selective fluoride deprotection followed by ring closure with carbonyl diimidazole (Kaiser, A.; Balbi, M.; Tetrahedron: Asymmetry 1999, 10(5), 1001) can give carbamate 193. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 194. Alternatively, oxidation with PDC can give acid 195. While only one regioisomer and ring size is shown, other regioisomers and ring sizes can be prepared by varying the chain

lengths relative to the chiral centers as shown in the preceding schemes and then performing the ring closure.

Scheme 43

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Scheme 44 describes the preparation of cyclic ureas, olefin 70 can undergo ozonolysis with reductive workup, mesylate formation, azide displacement and selective fluoride deprotection to give azide 196. Mesylate formation, azide displacement, catalytic hydrogenation followed by ring closure with carbonyl diimidazole can give urea 197. Fluoride deprotection and Swern oxidation completes the synthesis of aldehyde 198. Alternatively, oxidation with PDC can give acid 199.

Scheme 44

The regioisomeric 3,4-disubstituted dihydropyrans prepared in Scheme 11 can also be prepared using the route shown in Scheme 45. Acid-catalyzed transesterification of γ -butyrolactone $\underline{200}$ can provide the hydroxyester $\underline{201}$, which can undergo rhodium-catalyzed carbene insertion to provide the diester $\underline{202}$. Dieckmann cyclization can provide the ketoester $\underline{203}$, which can be converted to the β -aminoester $\underline{205}$ as already described

for the preparation of other β -aminoesters. The trans isomer can be obtained either by reduction of the intermediate enamine 204 with sodium triacetoxyborohydride followed by base-catalyzed epimerization as already described, or by reduction of 204 with triethylsilane in trifluoroacetic acid. The ester can then be hydrolyzed to the acid 206, followed by coupling to give the amide 207. The benzyl group can be removed by hydrogenolysis to the amine 208, followed by reduction of the amide to 209 and reaction with an isocyanate or carbamate to provide the products 210.

Scheme 46

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A number of 5-membered heterocyclic β-ketoesters can be prepared using methods demonstrated in the literature, and converted to the analogous products using reaction sequences similar to those already described. For example as in Scheme 46, methyl 4-keto-tetrahydrothiophene-3-carboxylate 211 and methyl 3-keto-tetrahydrothiophene-2-carboxylate 212 can be prepared as described by O. Hromatka, D. Binder and K. Eichinger, Monatsheft. Chem. 1973, 104, 1520. Ethyl 4-ketopyrrolidine-3-carboxylate 213 and ethyl 3-ketopyrrolidine-2-carboxylate 214, bearing a carbamate protecting group on the ring nitrogen atom, may be

prepared as described by J. Blake, C. D. Willson and H. Rapoport, J. Am. Chem. Soc. 1964, 86, 5293, and converted to various products using chemistry analogous to that already described.

5 A synthetic route to (3R, 4S)-4-[(R)-1phenylethylamino]-pyrrolidine-1,3-dicarboxylic acid 1tert-butyl ester 3-ethyl ester 215 has been described by X. Wang, J. F. Espinosa and S. H. Gellman, J. Am. Chem. Soc. 2000, 122, 4821. A synthetic route to (2R, 3R)-3-10 benzyloxycarbonylamino-pyrrolidine-1,2-dicarboxylic acid 1-tert-butyl ester 2-ethyl ester 216 has been described by S. H. Gellman, D. H. Appella, L. A. Christianson, D. A. Klein, S. Krauthauser, Y. J. Chung, and X. Wang, U. S. Pat. 6,060,585. The preparation of 1-substituted analogs of (3R,4S)-4-tert-butoxycarbonylamino-5-oxo-15 pyrrolidine-3-carboxylic acid benzyl ester 217 has been described by D. S. Garvey, P. D. May and A. M. Nadzan, J. Org. Chem. 1990, 55, 936. The preparation of the enantiomer of N-benzyl-N-[(2R,3R)-2-formyl-5-oxopyrrolidin-3-yl]-acetamide 218 has been described by N. 20 Langlois and M. Radom, Tetrahedron Lett 1998, 39, 857. These intermediates may be converted to the corresponding final products using synthetic transformations disclosed herein.

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EXAMPLES

Example 1

Part A: Preparation of 4-oxopiperidine-1,3-dicarboxylic acid 1-t-butyl ester 3-methyl ester

In a dry flask 4-oxo-3-piperidinecarboxylic acid methyl ester hydrochloride (15.01 g, 77.52 mmol) was dissolved in tetrahydrofuran (100 mL) and triethylamine (22 mL, 158 mmol) was added. After stirring for 10 minutes, di-t-butyl dicarbonate (18.6 g, 85.2 mmol) was

added and the reaction mixture was stirred for 6 hours. The mixture was concentrated in vacuo, dissolved in ethyl acetate (50 mL) and extracted twice with water (25 mL). The aqueous extracts were combined and extracted with ethyl acetate (50 mL). The combined organic extracts were dried with magnesium sulfate, filtered and concentrated in vacuo to give a light yellow oil (23.05 g, 100%) which was taken on without further purification. ¹H NMR (300 MHz, CDCl₃), δ: 11.97 (s, 1H), 4.05 (s, 2H), 3.78 (s, 3H), 3.57 (t, 2H, J = 6), 2.37 (t, 2H, J = 6), 1.48 (s, 9H).

Part B: Preparation of (R)-4-(1-phenyl-ethylamino)-2,5-dihydro-2H-pyridine-1,3-dicarboxylic acid 1-tert-butyl ester 3-methyl ester

In a dry flask equipped with a Dean-Stark trap and reflux condenser, 4-oxopiperidine-1,3-dicarboxylic acid 1-t-butyl ester 3-methyl ester (23.05 g, 85.2 mmol) was dissolved in toluene (300 mL). (R)-(+)-a-

Methylbenzylamine (12.5 mL, 97.0 mmol) and ptoluenesulfonic acid monohydrate (0.23 g, 1.21 mmol)
were added and the mixture heated to reflux for 18
hours. The crude reaction mixture was concentrated in
vacuo to give the desired amine (36.92 g, quantitative)

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- as a thick orange oil. ^{1}H NMR (300 MHz, CDCl₃), δ : 9.25 (d, 1H, J = 7), 7.26 (m, 5H), 4.61 (m, 1H), 4.06 (s, 2H), 3.72 (s, 3H), 3.41 (m, 1H), 3.30 (m, 1H), 2.39 (m, 1H), 2.04 (m, 1H), 1.50 (d, 3H, J = 7), 1.43 (s, 9H).
- 30 Part C: Preparation of (3S,4R)-4-[(R)-1-phenyl-ethylamino]-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-methyl ester

In a dry flask (R)-4-(1-phenyl-ethylamino)-2,5-dihydro-2H-pyridine-1,3-dicarboxylic acid 1-tert-butyl ester 3-methyl ester (26.72 g crude, 85.2 mmol) was

dissolved in acetonitrile (250 mL) and glacial acetic acid (190 mL) and cooled to 0°C. Triacetoxyborohydride (82.31 g, 388 mmol) was added in two portions over a 140-minute period. The reaction mixture was allowed to stir at 0°C for 30 minutes. The reaction mixture was concentrated in vacuo, removing 170 mL of acetonitrile. The reaction mixture was neutralized by the sequential addition of 1N sodium hydroxide (50 mL), 2N sodium hydroxide (50 mL), 5.7 M sodium hydroxide (50 mL) and 10 concentrated aqueous sodium hydroxide (150 mL) to maintain the internal temperature of the flask below 18°C. Water was added to dissolve the solid sodium The resulting mixture was extracted with twice with dichloromethane (200 mL). The combined organic extracts were dried with magnesium sulfate, filtered, 15 concentrated in vacuo, and then purified by flash chromatography with 20% ethyl acetate in hexanes to give a colorless oil (30.82 g, 83%). The ¹H NMR showed a mixture of two rotation isomers. The major compound had the following ¹H NMR (300 MHz, CDCl₃), δ : 7.32 (m, 4H), 20 7.24 (m, 1H), 4.00 (d, 1H, J = 9), 3.86 (q, 1H, J = 7),3.72 (s, 3H), 3.67 (m, 1H), 3.16 (dd, 1H, J = 14, J' =4), 2.98 (td, 1H, J = 12, J' = 4), 2.84 (m, 2H), 1.75 (m, 1H), 1.43 (s, 9H), 1.28 (d, 3H, J = 7), 1.26 (m, 1H)25 1H).

Part D: Preparation of (3R,4R)-4-[(R)-1-phenyl-ethylaminol-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-ethyl ester

In a dry flask (3S,4R)-4-[(R)-1-phenyl-ethylamino]piperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3methyl ester (13.78 g, 38.0 mmol) was dissolved in
ethanol (400 mL) along with 3Å molecular sieves (1.04
g). The mixture was heated to reflux over 2.5 hours.

Potassium carbonate (26.3 g) was added and refluxing

continued for 4 additional hours. The reaction mixture was cooled, filtered through a bed of celite, and concentrated in vacuo to give a crude oil (16.05 g). Purification by flash column chromatography (20-50% ethyl acetate/hexanes) provided a colorless oil (3.24 g, 23%). Unepimerized ethyl ester was also isolated (7.55 g, 53%).

¹H NMR (300 MHz, CDCl₃), δ: 7.30 (m, 4H), 7.23 (m, 1H), 4.20 (m, 3H), 3.97 (bs, 1H), 3.82 (q, 1H, J = 6), 2.89 (m, 2H), 2.66 (t, 1H, J = 11), 2.31 (bs, 1H), 1.72 (m, 1H), 1.43 (s, 9H), 1.31 (m, 7H), 1.11 (m, 1H).

Part E: Preparation of (3R,4R)-4-aminopiperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-ethyl ester

In a dry 500-mL Paar flask charged with Palladium hydroxide (20 wt% Pd, dry basis, on carbon, 1.50 g) was added ethanol (75 mL) and (3R,4R)-4-[(R)-1-phenylethylamino]-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-ethyl ester (4.30 g, 11.4 mmol). The reaction mixture was hydrogenated at 53 psi for 20.5 hours with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of ethanol and the combined filtrates were concentrated in vacuo to give a colorless oil (3.07 g,

25 99%). ¹H NMR (300 MHz, CDCl₃), δ : 4.32 (bs, 1H), 4.19 (q, 2H, J = 7), 4.19 (bs, 1H), 3.08 (td, 1H, J = 11, J' = 3), 2.75 (bt, 2H, J = 14), 2.29 (td, 1H, J = 11, J' = 4), 1.89 (m, 1H), 1.46 (s, 9H), 1.38 (td, 1H, J = 12, J' = 5), 1.28 (t, 3H, J = 7).

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Part F: Preparation of (3R, 4R)-4-

benzyloxycarbonylamino-piperidine-1,3-dicarboxylic acid
1-tert-butyl ester 3-ethyl ester

In a dry flask (3R,4R)-4-aminopiperidine-1,3-35 dicarboxylic acid 1-tert-butyl ester 3-ethyl ester (3.07

g, 11.3 mmol) was dissolved in dichloromethane (100 mL) and triethylamine (2.1 mL, 15.1 mmol) and benzyl chloroformate (2.0 mL, 12.6 mmol) were added. mixture was stirred for 22 hours. Water (30 mL) was added and the layers separated. The aqueous layer was extracted with dichloromethane (30 mL). The combined organic layers were dried with magnesium sulfate, filtered, and concentrated in vacuo to give a crude oil (4.91 g). Purification by flash column chromatography 10 (40% ethyl acetate/hexanes) provided a colorless oil (2.37 g, 51%). ¹H NMR (300 MHz, CDCl₃), δ : 7.33 (m, 5H), 5.08 (s, 2H), 4.71 (s, 1H), 4.12 (m, 4H), 3.90 (m, 1H), 2.98 (bs, 1H), 2.85 (t, 1H, J = 13), 2.37 (m, 1H), 2.06 (d, 1H, J = 7), 1.45 (s, 9H), 1.37 (m, 1H), 1.2015 (t, 3H, J = 7).

Part G: Preparation of (3R,4R)-4benzyloxycarbonylamino-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester

20 In a flask (3R,4R)-4-benzyloxycarbonylaminopiperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3ethyl ester (2.98 g, 7.33 mmol) was dissolved in tetrahydrofuran (120 mL) and lithium hydroxide (15 mL of a 1N aqueous solution, 15 mmol) was added. The mixture was stirred for 68 hours. The reaction was concentrated 25 in vacuo to one-third the original volume. Water (50 mL) and diethyl ether (50 mL) were added and the layers separated. The aqueous layer was extracted with diethyl ether twice (30 mL). The aqueous layer was acidified 30 with aqueous hydrochloric acid (6.5 mL of a 2M solution) and then extracted with ethyl acetate three times (30 mL). The combined organic layers were dried with magnesium sulfate, filtered, and concentrated in vacuo to give a crude white solid (3.11 g) which was used 35 without further purification. ¹H NMR (300 MHz, CDCl₃),

 δ : 7.36 (m, 5H), 5.12 (m, 2H), 4.91 (bs, 1H), 4.24 (bs, 1H), 4.09 (bs, 1H), 3.92 (bs, 1H), 3.01 (bs, 1H), 2.87 (m, 1H), 2.44 (m, 1H), 2.05 (bs, 1H), 1.45 (s, 9H), 1.40 (m, 1H).

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Part H: Preparation of t-Butyl 3-oxo-1-piperidinecarboxylate

To a stirring solution of N-benzyl-3-piperidone hydrochloride hydrate (4.2 g, 18.6 mmol) and 10 % palladium on carbon (0.8 g) in degassed methanol (200 10 mL) was added hydrogen gas to 55 psi. The reaction mixture was stirred for 16 hr and then filtered through a pad of celite. The celite was washed with methanol (200 mL). The filtrates were combined and concentrated 15 in vacuo to a colorless oil. The oil was dissolved in tetrahydrofuran (200 mL) and then treated with di-tbutyl-dicarbonate (5.27 g, 24.1 mmol) and saturated aqueous. sodium bicarbonate (50 mL). The reaction was stirred for 4 hr and then concentrated in vacuo to a white solid. The solid was partitioned between ethyl 20 acetate and 1N hydrochloric acid. The organic layer was separated, washed with 1N sodium hydroxide and brine, dried over Na2SO4, and evaporated in vacuo to a colorless oil. The oil was purified by flash chromatography (silica gel, hexane:ethyl acetate 3:1) to 25 yield 2.93 g as a colorless oil. ¹H NMR (300 MHz, $CDCl_3$) δ 3.99 (s, 2H), 3.58 (t, J = 6, 2H), 2.46 (t, J = 6, 2H), 1.97 (p, J = 6, 2H), 1.45 (s, 9H).

30 Part I: Preparation of t-Butyl 3-(4-fluorobenzylidene)1-piperidinecarboxylate

To a stirring solution of (4-fluorophenylmethyl)- triphenylphosphonium chloride (17.68~g,~43.5~mmol) in dry tetrahydrofuran (60~mL) at $-78~^{\circ}\text{C}$ was added 2.5~M n-butyllithium in hexane (14.6~mL,~36.5~mmol). The

reaction was warmed to 0C for 1 hr and t-Butyl 3-oxo-1piperidinecarboxylate (3.46 g, 17.4 mmol) in tetrahydrofuran (60 mL) was added. The mixture was stirred at room temperature for 1 hr and the heated to reflux for 16 hr. The reaction was cooled to room 5 temperature and quenched by the addition of saturated aqueous ammonium chloride. The reaction was extracted with ethyl acetate three times (100 mL). The organic layers were combined, washed with brine, dried over 10 magnesium sulfate, and evaporated in vacuo to a pale yellow oil. The oil was purified by flash chromatography (silica gel, hexane:ethyl acetate 9:1) to yield 3.82 g of a mixture of E and Z isomers as a colorless oil. ¹H NMR (300 MHz, CDCl₃) δ 7.22-7.14 (m, 15 2H), 7.04-6.98 (m, 2H), 6.36 (s, 0.33H), 6.28 (s, 0.67H), 4.14 (s, 1.34 H), 4.00 (s, 0.66H) 3.50 (t, J =5, 2H), 2.47 (t, J = 5, 0.66 H), 2.39 (t, J = 5, 1.34H), 1.75-1.68 (m, 1.34H), 1.65-1.57 (m, 0.66H), 1.48 (s, 9H).

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Part J: Preparation of t-Butyl (±)-3-(4-fluorobenzyl)-1-piperidinecarboxylate

To a stirring solution of the t-Butyl 3-(4-fluorobenzylidene)-1-piperidinecarboxylate (3.82 g, 13.1 mmol) and 10 % palladium on carbon (0.76 g) in degassed methanol (200 mL) was added hydrogen gas to 55 psi. The reaction was stirred for 16 h and then filtered through a pad of celite. The celite was washed with methanol (200 mL). The filtrates were combined and concentration in vacuo to yield 2.76 g as a colorless oil. ¹H NMR (300 MHz, CDCl₃) δ 7.12-7.07 (m, 2H), 6.98-6.93 (m, 2H), 3.89 (dt, J = 13, J' = 4, 1H), 3.84-3.74 (m, 1H), 2.57-2.43 (m, 4H), 1.75-1.60 (m, 4H), 1.42 (s, 9H), 1.15-1.09 (m, 1H).

Part K: Preparation of (3S)-3-(4-fluorobenzyl)piperidine, mandelic acid salt

N-BOC-3-(4-fluorobenzyl)piperidine (5 g) was dissolved in 30 mL of 4N hydrochloric acid in dioxane.

5 Some initial gassing occurred which eventually subsided. After one hour, the mixture was neutralized with aqueous Na₂CO₃, and the dioxane was evaporated off. The residue was then extracted with ether. The combined ether extracts were dried over magnesium sulfate and evaporated off to give 2.6 g of the free amine as a discolored oil. This crude material was used to make the diastereomeric salts.

Resolution of 3-(4-fluorobenzyl)piperidine

The crude racemic 3-(4-fluorobenzyl)piperidine (2.0 15 g) was dissolved in 25 mL acetonitrile and heated to reflux. The solution was hazy. To this was added 1.56 g (1 equiv.) of (R)-(-) mandelic acid dissolved in 15 mL acetonitrile. Some initial precipitation occurred when the cooler solution was added but it did redissolve when refluxing resumed. The heat was turned off and 20 small amounts of enantiomerically pure salt was added as the temperature dropped. At first the seed crystals dissolved, but when the temperature dropped to 75 °C, they remained suspended in the stirred solution. After a few more degrees of cooling, crystal growth was 25 obvious. Cooling was continued at the rate of 1 degree/min. At 50 °C, the solution was filtered to recover 0.9 g of salt, which melted at 164 °C. It was recrystallized from acetonitrile twice to give (S)-(+)-30 3-(4-fluorobenzyl)piperidine mandelic acid salt in 98% ee, and melting at 168-171 °C.

Part L: Preparation of (3R, 4R)-4-

35 <u>benzyloxycarbonylamino-3-[(S)-3-(4-fluoro-benzyl)-</u>

piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester

(S)-3-(4-fluorobenzyl)-piperidine, mandelic acid salt (4.33 g, 12.5 mmol) is dissolved in 1N sodium hydroxide (100 mL) and extracted with ethyl acetate (50 mL) three times. The combined organic extracts were dried with magnesium sulfate, filtered, concentrated in vacuo and used without further purification.

In a flask (3R,4R)-4-benzyloxycarbonylamino-10 piperidine-1,3-dicarboxylic acid 1-tert-butyl ester (3.93 g, 10.4 mmol) was dissolved in dichloromethane (200 mL) and then benzotriazol-1-yloxytripyrrolidinophosphonium hexafluorophosphate (6.48 g, 12.5 mmol) and triethylamine (3.3 mL, 23.7 mmol) were 15 added. After stirring for 5 minutes, (S)-3-(4fluorobenzyl)-piperidine (2.21 g, 11.4 mmol) was added. The mixture was stirred for 16 hours. The reaction mixture was extracted with water (50 mL) and brine (50 mL). The organic layer was dried with magnesium 20 sulfate, filtered, and concentrated in vacuo to give a crude orange glass (10.49 g). Purification by flash column chromatography (50-70% ethyl acetate/hexanes) provided a colorless oil (4.79 g, 83%). ¹H NMR (300 MHz, CDCl₃), δ : 7.32 (m, 2H), 7.26 (m, 3H), 7.07 (m, 25 2H), 6.95 (m, 2H), 5.04 (m, 2H), 4.41 (d, 1H, J = 13), 4.12 (bm, 2H), 3.83 (bm, 2H), 3.06 (bm, 1H), 2.76 (bs, 2H), 2.60 (dd, 2H, J = 14, J' = 6), 2.37 (m, 2H), 1.90

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0.87 (m, 1H).

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Part M: Preparation of (3R,4R)-4-amino-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester

(bs, 1H), 1.63 (bm, 2H), 1.45 (m, 9H), 1.12 (m, 3H),

In a dry 500-mL Paar flask charged with 10 wt% palladium on carbon (0.050 g) and (3R,4R)-4-

benzyloxycarbonylamino-3-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester (0.25 g, 0.451 mmol) was added methanol (15 mL). The reaction mixture was hydrogenated at 48 psi 5 for 18 hours with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of methanol and the combined filtrates were concentrated in vacuo to give a white solid (0.183 g, 97%). ¹H NMR (300 MHz, CDCl₃), δ : 8.11 10 (bs, 2H), 7.15 (m, 2H), 6.97 (t, 2H, J = 8), 4.23 (bm, 3H), 3.88 (m, 1H), 3.67 (bs, 1H), 3.13 (m, 1H), 2.60 (bm, 5H), 2.31 (bd, 1H, J = 12), 1.74 (bm, 6H), 1.47 (2s, 9H), 1.20 (m, 1H). MS (ESI), $m^{+}/z: (M+H)^{+} = 420.3.$

15 Part N: Preparation of (3R,4R)-4-[3-(3-acetyl-phenyl)ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyll-piperidine-1-carboxylic acid t-butyl ester In a dry flask (3R,4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic 20 acid t-butyl ester (56 mg, 0.133 mmol) was dissolved in tetrahydrofuran (2 mL) and triethylamine (24 μ L, 0.172 mmol) and 3-acetylphenylisocyanate (22 μ L, 0.160 mmol) were added. The reaction mixture was stirred for 17 hours. One-half of the original reaction mixture (1 mL) 25 was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (24 mg, 62%). H NMR (400 MHz, DMSO, 120°C), δ : 8.32 (s, 1H), 7.91 (t, 1H, J = 2), 7.58 (m, 1H), 7.4830 (m, 1H), 7.33 (t, 1H, J = 8), 7.15 (m, 2H), 6.99 (m, 1H)2H), 5.98 (d, 1H, J = 10), 4.04 (bd, 1H, J = 13), 3.89

(bm, 4H), 3.20 (bs, 2H), 2.96 (m, 2H), 2.86 (m, 2H),

2.50 (s, 3H), 2.46 (m, 2H), 1.90 (m, 1H), 1.62 (bm, 4H),

1.43 (2s, 9H), 1.20 (m, 1H). HRMS (ESI), $C_{32}H_{42}FN_4O_5$ m⁺/z: calc. = 581.3139, found = 581.3141.

Example 2

In a dry flask (3R,4R)-4-[3-(3-acetyl-phenyl)-

Preparation of 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-urea, trifluoroacetic acid salt

ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester 24 mg, 0.041 mmol in 1 mL of tetrahydrofuran) was

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concentrated in vacuo, redissolved in dichloromethane (1 mL), and trifluoroacetic acid (0.5 mL) was added. The reaction mixture was stirred for 5 hours. The reaction

mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (22 mg, 89%). ¹H NMR (400 MHz, DMSO, 120°C), δ: 8.44 (bm, 3H), 7.96 (bs, 1H), 7.59 (m, 1H),

7.51 (m, 1H), 7.36 (t, 1H, J = 8), 7.16 (m, 2H), 7.01 (t, 2H, J = 9), 6.60 (d, 1H, J = 7), 4.17 (d, 1H, J = 13), 4.08 (bs, 1H), 3.90 (m, 1H), 3.43 (bs, 1H), 3.23 (m, 2H), 3.13 (m, 2H), 3.04 (bs, 2H), 2.51 (s, 3H), 2.46 (m, 2H), 1.97 (m, 2H), 1.67 (bd, 3H, J = 9), 1.42 (bs,

25 1H), 1.19 (m, 1H). HRMS (ESI), $C_{27}H_{34}FN_4O_3$ m^{*}/z: calc. = 481.2615, found = 481.2614.

Example 3

Part A: Preparation of N-methyl-3-nitro-benzamide

In a dry flask 3-nitrobenzoyl chloride (7.00 g, 37.7 mmol) was dissolved in tetrahydrofuran (300 mL) and methylamine (41.5 mL of a 2.0 M solution in tetrahydrofuran, 82.9 mmol) was added. The reaction mixture was stirred for 2 hours. The reaction mixture was diluted with ethyl acetate (500 mL) and extracted

with water three times (100 mL). The organic layer was dried with sodium sulfate, filtered, and concentrated in vacuo. The crude solid (6.38 g, 94%) was used with further purification. ¹H NMR (300 MHz, CDCl₃), δ : 8.84 (bs, 1H), 8.67 (m, 1H), 8.37 (dd, J = 8, J' = 2, 1H), 8.28 (d, J = 7, 1H), 7.78 (dd, J = 8, J' = 7, 1H), 2.83 (m, 3H). MS (ESI), m^{+}/z : $(M+H)^{+} = 181$.

Part B: Preparation of 1-methyl-5-(3-nitrophenyl)tetrazole

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In a dry flask N-methyl-3-nitro-benzamide (30.0 g, 167 mmol) was dissolved in acetonitrile (835 mL) and sodium azide (10.9 g, 167 mmol) was added and the reaction cooled in an ice bath. Triflic anhydride (29 15 mL, 172 mmol) was added dropwise to maintain the internal temperature below 3 °C. The reaction mixture was stirred for 3.5 hours at 0°C. The reaction mixture was poured into 1N aqueous sodium hydroxide (100 mL). The organic layer was separated dried with sodium 20 sulfate, filtered, and concentrated in vacuo to 50 mL. The solution was diluted with dichloromethane and added water to precipitate a yellow solid (18.46 g, 54%). A second crop of crystals was obtained by concentrated the filtrate in vacuo and adding it to boiling ethyl 25 acetate. Upon cooling to 0 °C, 6.07 g (18%) of additional material was isolated upon filtration. further purification. ¹H NMR (300 MHz, CDCl₃), δ : 8.67 (m, 1H), 8.49 (dd, J = 8, J' = 2, 1H), 8.31 (d, J = 8,1H), 7.94 (dd, J = 8, J' = 8, 1H), 4.22 (s, 3H).

Part C: Preparation of 1-methyl-5-(3-aminophenyl)tetrazole

In a Paar flask 1-methyl-5-(3-nitrophenyl)tetrazole (28.8 g, 140 mmol) was dissolved in ethyl

acetate (430 mL) and methanol (1270 mL) and added to palladium on carbon (2.7 g, 10 wt%). The reaction mixture was hydrogenated for 1.5 hours with vigorous shaking. The reaction mixture was filtered, and concentrated in vacuo to give a white solid (24.0 g, 98%) was used with further purification. ¹H NMR (300 MHz, CDCl₃), δ : 7.21 (dd, J = 8, J' = 7, 1H), 6.99 (s, 1H), 6.90 (d, J = 7, 1H), 6.76 (d, J = 8, 1H), 5.44 (bs, 2H), 4.10 (s, 3H).

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Part D: Preparation of [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-carbamic acid phenyl ester

In a dry flask of 1-methyl-5-(3-aminophenyl)tetrazole (24.0 g, 137 mmol) was dissolved in 15 dichloromethane (1.4 L) and 2,6-lutidine (44.1 g, 411 mmol) was added. Phenyl chloroformate (21.2 g, 136 mmol) was added in 4 portions over 15 minutes, then the reaction was stirred for 1.5 hours. The reaction was poured into 1N aqueous hydrochloric acid (200 mL) and 20 the mixture was extracted with dichloromethane three times (200 mL). The combined organic layers were washed with brine, dried with sodium sulfate, filtered, and concentrated in vacuo. The crude brown material was dissolved in hot toluene, filtered, and allowed to precipitate at 0°C to give 34.1 g of a white solid. filtrate was concentrated and recrystallized from toluene again to give an additional crop of off-white crystals (3.44 g, 93% total). H NMR (300 MHz, CDCl₃), δ : 10.51 (bs, 1H), 8.01 (s, 1H), 7.71 (dt, J = 7, J' = 30 2, 1H), 7.55 (m, 2H), 7.41 (m, 2H), 7.24 (m, 2H), 4.14 (s, 3H).

Part E: Preparation of (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-4-{3-[3-(1-methyl-1H-

tetrazol-5-yl)-phenyll-ureido}-piperidine-1-carboxylic acid t-butyl ester

In a dry flask (3R, 4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester (350 mg, 0.834 mmol) was dissolved in dimethylformamide (5 mL) and [3-(1-methyl-1H-tetrazol-5yl)-phenyl]-carbamic acid phenyl ester (285 mg, 0.965 mmol) was added. The reaction mixture was stirred for 19 hours. The reaction mixture was diluted with ethyl 10 acetate and extracted three times with water. combined aqueous extracts were extracted with ethyl acetate. The combined organic extracts were washed with brine, dried with sodium sulfate, filtered and concentrated in vacuo. The resulting oil was purified 15 by flash column chromatography with 70-100% ethyl acetate/hexanes to give a solid (387 mg, 75%). A small amount was further purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid 20 (33 mg, 62%). ¹H NMR (300 MHz, CDCl₃), δ : 7.88 (m, 1H), 7.49 (m, 2H), 7.40 (m, 1H), 7.19 (m, 1H), 7.01 (m, 1H), 6.95 (m, 1H), 6.86 (m, 1H), 4.31 (m, 1H), 4.17 (s, 3H), 4.03 (m, 4H), 3.16 (m, 1H), 3.05 (m, 1H), 2.88 (m, 3H), 2.67 (m, 1H), 2.50 (m, 2H), 2.37 (m, 1H), 1.95 (m, 1H), 25 1.65 (m, 5H), 1.47 (s, 9H), 1.23 (m, 1H). HRMS (ESI), $C_{32}H_{42}FN_8O_4$ m⁺/z: calc. = 621.3313, found = 621.3337.

Example 4

Preparation of 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl1H-tetrazol-5-yl)-phenyl]-urea, trifluoroacetic acid
salt

In a dry flask (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-

yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-butyl ester (348 mg, 0.561 mmol) was dissolved in dichloromethane (8 mL), and trifluoroacetic acid (3 mL) The reaction mixture was stirred for 2.5 hours. The reaction mixture was concentrated in vacuo then a small quantity was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (37 mg). ¹H NMR (300 MHz, CD₃OD), δ : 7.95 (d, 1H, 10 J = 10), 7.50 (m, 3H), 7.12 (m, 2H), 6.91 (m, 2H), 4.34 (bm, 2H), 4.16 (s, 3H), 3.99 (m, 1H), 3.55 (m, 1H), 3.38 (m, 3H), 3.15 (m, 2H), 2.96-2.61 (m, 1H), 2.47 (m, 2H), 2.07 (bm, 2H), 1.77 (m, 2H), 1.47 (bm, 2H), 1.24 (m, 1H). HRMS (ESI), $C_{27}H_{34}FN_8O_2$ m^{*}/z: calc. 521.2789, found 15 = 521.2803.

Example 5

Preparation of 1-{1-(2,2-Dimethyl-propionyl)-3-[(3R,4R)-3-((S)-4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyll-urea

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In a dry flask 1-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea (63 mg, 0.10 mmol)
was dissolved in dichloromethane (2 mL), and then triethylamine (70 μL, 0.50 mmol) and trimethylacetyl chloride (18 μL, 0.15 mmol) were added. The reaction mixture was stirred for 19 hours. The reaction mixture was concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (42 mg, 70%). ¹H NMR (300 MHz, CDCl₃), δ: 8.35 (s, 1H), 7.89 (t, 1H, J = 2), 7.54 (dq, 1H, J = 8, J' = 1), 7.44 (t, 1H, J = 8), 7.34 (dt, 1H, J = 8, J'

= 1), 7.15 (m, 2H), 6.99 (t, 2H, J = 9), 6.00 (d, 1H, J = 8), 4.22 (m, 2H), 4.12 (s, 3H), 4.05 (d, 2H, J = 14), 3.93 (m, 1H), 3.00 (m, 3H), 2.83 (m, 1H), 2.68 (t, 1H, J = 11), 2.56 (dd, 1H, J = 14, J' = 6), 2.45 (dd, 1H, J = 14, J' = 7), 1.99 (m, 1H), 1.66 (m, 4H), 1.39 (m, 1H), 1.24 (s, 9H), 1.20 (m, 1H). HRMS (ESI), $C_{32}H_{42}FN_8O_3$ m⁺/z: calc. 605.3363, found = 605.3377.

Example 6

Preparation of 1-{1-Acetyl-3-[(3R,4R)-3-((S)-4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea

In a dry flask 1-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-15 methyl-1H-tetrazol-5-yl)-phenyl]-urea (65 mg, 0.10 mmol) was dissolved in dichloromethane (2 mL), and then triethylamine (70 µL, 0.50 mmol) and acetyl chloride (11 μL , 0.15 mmol) were added. The reaction mixture was stirred for 17 hours. The reaction mixture was 20 concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (37 mg, 64%). H NMR (400 MHz, DMSO-d6, 140 °C), δ : 8.39 (s, 1H), 7.89 (t, 1H, J = 2), 7.54 (dg, 1H, J = 2) 25 8, J' = 1), 7.44 (t, 1H, J = 8), 7.35 (dt, 1H, J = 8, J'= 1), 7.15 (m, 2H), 6.99 (td, 2H, J = 9, J' = 2), 6.01 (d, 1H, J = 8), 4.12 (s, 3H), 4.02 (bm, 5H), 2.99 (bm,4H), 2.60 (bm, 2H), 2.44 (dd, 1H, J = 14, J' = 7), 2.01 (s, 3H), 1.95 (d, 1H, J = 10), 1.66 (m, 4H), 1.39 (m, 4H)1H), 1.19 (m, 1H). HRMS (ESI), $C_{25}H_{36}FN_8O_3$ m⁺/z: calc. 30

563.2894, found = 563.2865.

Example 7

Preparation of 1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzy1)-piperidine-1-carbonyl]-1-methanesulfonyl-piperidin-4-y1}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea

In a dry flask 1-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea (67 mg, 0.11 mmol) was dissolved in dichloromethane (2 mL), and then triethylamine (65 •L, 0.47 mmol) and methanesulfonyl chloride (9 μ L, 0.11 mmol) were added. The reaction

mixture was stirred for 25 minutes. The reaction mixture was concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white

amorphous solid (38 mg, 60%). ¹H NMR NMR (400 MHz, DMSO-d6, 140 °C), δ : 8.37 (s, 1H), 7.89 (t, 1H, J = 2), 7.54 (d, 1H, J = 6), 7.44(t, 1H, J = 8), 7.35 (m, 1H), 7.14 (m, 2H), 6.99 (t, 2H, J = 9), 6.05 (d, 1H, J = 8), 4.12 (s, 3H), 4.05 (d, 2H, J = 14), 3.85 (m, 1H), 3.63

20 (m, 2H), 3.16 (td, 1H, J = 10, J' = 4), 2.90 (m, 3H), 2.88 (s, 3H), 2.66 (m, 1H), 2.56 (dd, 1H, J = 14, J' = 6), 2.44 (dd, 1H, J = 14, J' = 8), 2.01 (m, 1H), 1.79 (qd, 1H, J = 13, J' = 4), 1.65 (bs, 3H), 1.40 (m, 1H), 1.20 (m, 1H). HRMS (ESI), $C_{28}H_{36}FN_8O_4S$ m⁺/z: calc.

25 599.2564, found = 599.2586.

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Example 8

Preparation of 1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-1-methyl-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea, trifluoroacetic acid salt

In a dry flask 1-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea (68 mg, 0.11 mmol) was dissolved in dichloroethane (4 mL), and then a

solution of formaldehyde (250 µL in tetrahydrofuran) was The reaction mixture was stirred for 11 minutes then triacetoxyborohydride (36 mg, 0.17 mmol) was added. The mixture was stirred an additional 4.5 hours. The reaction was quenched with saturated aqueous sodium bicarbonate (1 mL) then diluted with water. The mixture was extracted with dichloromethane three times, dried with magnesium sulfate, filtered and concentrated in vacuo. Then it was purified by preparative reversephase HPLC (10-80% acetonitrile in water with 0.05% 10 trifluoroacetic acid) to give a white amorphous solid (37 mg, 53%). ¹H NMR (400 MHz, DMSO-d6, 140 °C), δ : 8.46 (s, 1H), 7.92 (s, 1H), 7.56 (d, 1H, J = 8), 7.46 (t, 1H, IH)J = 8), 7.37 (d, 1H, J = 8), 7.16 (m, 2H), 7.00 (t, 2H, J = 9), 6.48 (bs, 1H), 4.13 (s, 3H), 4.12 (m, 2H), 3.87 15 (bs, 1H), 3.48 (bs, 1H), 3.21 (bs, 3H), 3.04 (bs, 3H), 2.72 (bs, 3H), 2.53 (m, 1H), 2.49 (m, 1H), 2.01 (m, 2H), 1.69 (m, 3H), 1.43 (bs, 1H), 1.21 (m, 1H). HRMS (ESI), $C_{28}H_{36}FN_8O_2$ m⁺/z: calc. 535.2945, found = 535.2945.

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Example 9

Part A: Preparation of 5-nitro-indazole-1-carboxylic acid t-butyl ester

In a dry flask 5-nitro-indazole (1.03 g, 6.2 mmol)

was dissolved in tetrahydrofuran (25 mL), cooled to 0 °C

and sodium hydride (60% in mineral oil, washed with

hexanes, 0.25 g) was added. The reaction was stirred

for 10 minutes, di-t-butyl dicarbonate (1.35 g, 6.2

mmol) was added and the reaction stirred an additional

10 minutes. The reaction mixture was diluted with ethyl

acetate extracted with water and brine, and concentrated

in vacuo to give a white solid (1.61 g, 100%). H NMR

(300 MHz, CDCl₃), §: 8.71 (d, J = 2, 1H), 8.43 (dd, J =

9, J' = 2, 1H), 8.35 (s, 1H), 8.34 (d, J = 9, 1H), 1.75 (s, 9H).

Part B: Preparation of 5-amino-indazole-1-carboxylic acid t-butyl ester

In a Paar flask charged with palladium (10 wt% on carbon, 0.44 g) was added ethyl acetate (30 mL) and 5-nitro-indazole-1-carboxylic acid t-butyl ester (1.61 g, 6.2 mmol). The reaction mixture was hydrogenated at 50 psi for 30 minutes with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of methanol and the combined filtrates were concentrated in vacuo to give a white solid (1.4 g, 100%). H NMR (300 MHz, CDCl₃), δ: 7.99 (s, 15 lh), 7.97 (d, J = 10, 1H), 6.94 (dd, J = 10, J' = 2, 1H), 6.92 (d, J = 2, 1H), 1.71 (s, 9H).

Part C: Preparation of 5-phenoxycarbonylamino-indazole-1-carboxylic acid t-butyl ester

20 In a dry flask 5-amino-indazole-1-carboxylic acid t-butyl ester (1.4 g, 6.0 mmol) was dissolved in tetrahydrofuran (20 mL) and triethylamine (1.0 g, 9.9 mmol) were added and the reaction mixture cooled to 0°C. Phenyl chloroformate (1.0 g, 6.4 mmol) was added 25 dropwise and the mixture was stirred an additional 15 minutes after the addition was complete. The reaction mixture was diluted with ethyl acetate, washed with water, and concentrated in vacuo. The crude material was purified by flash chromatography with 35% ethyl acetate in hexanes to give a white solid (1.9 g, 90%). ¹H NMR (300 MHz, CDCl₃), δ : 8.14 (d, J = 10, 1H), 8.12 (s, 1H), 8.02 (bs, 1H), 7.40 (m, 3H), 7.24 (m, 4H), 1.73 (s, 9H).

Part D: Preparation of 5-(3-{(3R,4R)-1-tert-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester

5 In a dry flask (3R,4R)-4-Amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester (72 mg, 0.171 mmol) was dissolved in acetonitrile (2 mL) and triethylamine (25 µL, 0.179 mmol) and 5-(phenoxycarbonylamino)-1-indazolecarboxylic 10 acid 1-tert-butyl ester (72 mg, 0.204 mmol) were added. The reaction mixture was stirred for 64 hours while heating to 60 °C. The reaction mixture was cooled, diluted with ethyl acetate, washed twice with water and once with brine. The organic layer was dried with magnesium sulfate, filtered and concentrated in vacuo. 15 The crude product was purified by preparative reversephase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (71 mg, 61%). H NMR $(300 \text{ MHz}, \text{CDCl}_3)$, δ : 8.09 (m, 2H), 20 7.90 (2s, 1H), 7.44 (m, 1H), 7.10 (m, 1H), 6.99 (m, 1H), 6.83 (m, 2H), 4.90 (bs, 1H), 4.43 (bd, 1H, J = 11), 4.22(bs, 2H), 3.98 (bm, 2H), 3.14 (t, 1H, J = 13), 2.75 (bm,4H), 2.45 (bm, 3H), 1.94 (bm, 3H), 1.73 (2s, 9H), 1.48 (m, 9H), 1.45 (bm, 3H), 1.22 (bm, 1H). HRMS (ESI), 25 $C_{36}H_{48}FN_6O_6 \text{ m}^{\dagger}/z$: calc. = 679.3619, found = 679.3621.

Example 10

Preparation of 5-(3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester, trifluoroacetic acid salt

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In a dry flask 5-(3-{(3R,4R)-1-tert-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester (51 mg, 0.075 mmol) was dissolved in

dichloromethane (1.5 mL) and trifluoroacetic acid (0.5 mL) was added. The reaction mixture was stirred for 2.5 hours. The reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (5-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (21 mg, 47%). ¹H NMR (400 MHz, DMSO-d6, 140 °C), δ : 8.38 (bs, 2H), 8.03 (s, 1H), 7.89 (s, 1H), 7.75 (s, 1H), 7.41 (d, 1H, J = 9), 7.28 (dd, 1H, J = 9, J' = 2), 7.16 (m, 2H), 7.00 (t, 2H, J = 9), 6.41 (d, 1H, J = 7), 4.08 (m, 2H), 3.91 (m, 1H), 3.44 (m, 1H), 3.17 (bm, 5H), 2.50 (bm, 3H), 2.00 (m, 2H), 1.69 (d, 3H, J = 11), 1.43 (bs, 1H), 1.21 (m, 1H). HRMS (ESI), $C_{26}H_{32}FN_6O_2$ m⁺/z: calc. = 479.2571, found = 479.2564.

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Example 11

Part A: Preparation of (5-acetyl-4-methyl-thiazol-2-yl)-carbamic acid phenyl ester

In a round-bottom flask, NaH 60% dispersion in 20 mineral oil (3.07 g, 77 mmol) was washed 2x with hexane and suspended in DMF. Then 2-amino-5-acetyl-4-methylthiazole (10.0g, 64 mmol) was added and stirred while cooling in an ice bath. Stirring continued until the NaH was consumed. Diphenyl carbonate (34 g, 160 mmol) 25 was added while cooling and after the addition was complete the reaction mixture was stirred for an additional ~30 minutes at room temperature. The dimethylformamide was removed on a rotary evaporator (high vacuum, 40 °C) to yield a brown residue. 30 residue was dissolved in 1 L of chloroform and washed successively with 2 L of 0.5N aqueous hydrochloric acid, twice with 1 L of water, and finally by 1 L of brine. The aqueous portions were back extracted twice with 300 mL of chloroform. The combined organic fractions were 35 dried over anhydrous sodium sulfate, filtered and

concentrated on a rotary evaporator to give a white solid. This was chromatographed on silica (15%-70% EtOAc/hexane) to give 15 g of the desired carbamate as a white solid. ^{1}H NMR (300 MHz, CDCl₃) δ : 11.42 (bs, 1 H), 7.47-7.40 (m, 2 H), 7.33-7.27 (m, 1 H), 7.22-7.18 (m, 2 H), 2.72 (s, 3 H), 2.50 (s, 3 H). ESI MS: (M+H)⁺ = 277.1.

Part B: Preparation of (3R,4R)-4-[3-(5-acetyl-4-methylthiazol-2-yl)-ureidol-3-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester

In a dry flask (3R,4R)-4-Amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic 15 acid t-butyl ester (73 mg, 0.174 mmol) was dissolved in acetonitrile (2 mL) and triethylamine (25 µL, 0.179 mmol) and 4-acetyl-3-methyl-2-(phenoxycarbonylamino)thiazole (58 mg, 0.21 mmol) were added. The reaction mixture was stirred for 64 hours while heating to 60 °C. 20 The reaction mixture was cooled, diluted with ethyl acetate, washed twice with water and once with brine. The organic layer was dried with magnesium sulfate, filtered and concentrated in vacuo. The crude product was purified by preparative reverse-phase HPLC (10-80% 25 acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (60 mg, 57%). H NMR (300 MHz, CDCl₃), δ : 7.14 (m, 1H), 6.98 (m, 2H), 6.88 (t, 1H, J = 10), 4.39 (d, 1H, J = 13), 4.09 (bs, 2H),3.94 (bm, 2H), 3.12 (t, 1H, J = 11), 2.74 (bm, 5H), 2.6230 (m, 3H), 2.52 (m, 1H), 2.47 (m, 3H), 2.36 (m, 2H), 2.03 (bm, 3H), 1.74 (bm, 2H), 1.48 (2s, 9H), 1.40 (m, 1H), 1.22 (m, 1H). HRMS (ESI), $C_{30}H_{41}FN_{5}O_{5}S$ m⁺/z: calc. = 602.2813, found = 602.2811.

Example 12

Preparation of 1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidin-4-yl}-urea, trifluoroacetic acid salt

In a dry flask (3R,4R)-4-[3-(5-acetyl-4-methylthiazol-2-yl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester (47 mg, 0.078 mmol) was dissolved in dichloromethane (1.5 mL) and trifluoroacetic acid (0.5 10 mL) was added. The reaction mixture was stirred for 2 hours. The reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (5-80% acetonitrile in water with 0.05% trifluoroacetic acid) 15 to give a white amorphous solid (49 mg, 100%). 'H NMR (400 MHz, DMSO-d6, 120 °C), δ : 8.47 (bs, 2H), 7.15 (t, 2H, J = 6), 7.03 (m, 3H), 4.12 (bs, 1H), 3.95 (m, 2H), 3.45 (m, 1H), 3.24 (m, 2H), 3.12 (m, 2H), 2.51 (s, 3H), 2.48 (bm, 3H), 2.40 (s, 3H), 1.98 (m, 2H), 1.67 (bd, 3H, J = 10), 1.28 (bm, 3H). HRMS (ESI), $C_{25}H_{33}FN_5O_3S \text{ m}^{+}/z$: 20 calc. = 502.2288, found = 502.2281.

Example 13

Part A: Preparation of ethyl 3-oxo-4-

25 piperidinecarboxylate

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In a dry 500-mL Paar flask charged with palladium hydroxide (20 wt% Pd, dry basis, on carbon, 0.43 g) was added methanol (20 mL) and ethyl 1-benzyl-3-oxo-4-piperidinecarboxylate hydrochloride (5.00 g, 16.8 mmol). The reaction mixture was hydrogenated at 60 psi for 16 hours with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of methanol and the combined filtrates were concentrated in vacuo to give a light yellow oil (2.88

g, 100%). H NMR (300 MHz, CDCl₃), δ : 4.23 (g, J = 7,

2H), 3.84 (bs, (2H), 3.37 (m, 2H), 3.15 (m, 1H), 2.68 (m, 2H), 1.32 (t, J = 7, 3H). MS (ESI), m^{+}/z : (M+H)⁺ + CH₃CN = 213, (M+H)⁺ = 172.

5 Part B: Preparation of ethyl 1-(t-butoxycarbonyl)-3oxo-4-piperidinecarboxylate

In a dry flask, the crude ethyl 3-oxo-4-piperidinecarboxylate 2.88 g, 16.8 mmol) is dissolved in methanol (40 mL) and di-t-butyl dicarbonate (4.03 g, 18.5 mmol) and triethylamine (3.74 g, 36.9 mmol) were added. 10 reaction mixture was stirred under an argon atmosphere for 6 hours at room temperature. The reaction mixture was concentrated in vacuo and then water (30 mL) and ethyl acetate (30 mL) were added. The aqueous layer was 15 separated and then extracted twice with ethyl acetate (30 mL). The combined organic extracts were dried with magnesium sulfate, filtered and concentrated in vacuo. Purification by flash column chromatography (20% ethyl acetate/hexanes) provided 4.19 g (92%) of a colorless oil. ¹H NMR (300 MHz, CDCl₃), δ : 12.08 (bs, 1H), 4.23 20 (q, 2H, J = 7), 4.03 (bs, 2H), 3.49 (t, 2H, J = 6), 2.32(bt, 2H, J = 6), 1.47 (s, 9H), 1.31 (t, 3H, J = 7).

Part C: Preparation of (R)-5-(1-phenyl-ethylamino)-3,6-25 <u>dihydro-2H-pyridine-1,4-dicarboxylic acid 1-tert-butyl</u> <u>ester 4-ethyl ester</u>

In a dry flask equipped with a Dean-Stark trap and reflux condenser, ethyl 1-(t-butoxycarbonyl)-3-oxo-4-piperidinecarboxylate (4.19 g, 15.4 mmol) was dissolved in toluene (50 mL). (R)-(+)-a-Methylbenzylamine (1.91 g, 15.8 mmol) and p-toluenesulfonic acid monohydrate (0.019 g, 0.1 mmol) were added and the mixture heated to reflux for 6 hours. The crude reaction mixture was concentrated in vacuo to give the desired amine (5.78 g, 100%) as a thick orange oil. 1 H NMR (300 MHz, CDCl₃), δ :

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7.36 (t, J = 3, 2H), 7.33 (t, J = 4, 1H), 7.31 (dd, J = 3, J' = 4, 2H), 4.59 (m, 1H), 4.16 (q, J = 7, 2H), 3.59 (m, 2H), 2.34 (m, 2H), 1.58 (bs, 2H), 1.52 (d, J = 3, 3H), 1.29 (s, 9H), 1.26 (t, 3H, J = 7). MS (ESI), m^{+}/z : $(M+H)^{+} = 375$.

Part D: Preparation of (3R,4R)-3-[(R)-1-phenyl-ethylamino]-piperidine-1,4-dicarboxylic acid 1-tert-butyl ester 4-ethyl ester

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10 In a dry flask (R)-5-(1-phenyl-ethylamino)-3,6dihydro-2H-pyridine-1,4-dicarboxylic acid 1-tert-butyl ester 4-ethyl ester (5.78 g , 15.4 mmol) was dissolved in acetonitrile (25 mL) and glacial acetic acid (25 mL) and cooled to 0°C. Triacetoxyborohydride (9.82 g, 46.3 15 mmol) was added over a 5-minute period. The reaction mixture was allowed to stir at 0°C for 2 hours. Concentrated aqueous sodium hydroxide was carefully added to maintain the internal temperature of the flask below 10 °C. The resulting solid sodium acetate was 20 filtered and the mixture was extracted with ethyl acetate 3 times (50 mL). The combined organic extracts were dried with magnesium sulfate, filtered, concentrated in vacuo, and then purified by flash chromatography with 20% ethyl acetate in hexanes to give 25 a colorless oil (2.6 g, 47%). The 'H NMR showed a mixture of two rotation isomers. The major compound had the following H NMR (300 MHz, CDCl₃), δ : 7.28 (t, J = 5, 2H), 7.25 (t, J = 2, 1H), 7.23 (d, J = 4, 2H), 4.35 (m, 2H), 4.24 (q, 2H, J = 7), 3.96 (m, 2H), 3.15 (bs, 1H), 30 $2.99 \, (m, 1H), 2.75 \, (m, 1H) 2.48 \, (dt, 2H, J = 10, 4),$ 1.86 (m, 1H), 1.68 (m, 1H), 1.39 (s, 9H), 1.26 (d, 3H, J = 6), 1.26 (t, 3H, J = 7).

Part E: Preparation of (3R,4S)-3-(1-phenyl-ethylamino)piperidine-1,4-dicarboxylic acid 1-tert-butyl ester 4ethyl ester

In a dry flask (3R,4R)-3-[(R)-1-phenyl-ethylamino]piperidine-1,4-dicarboxylic acid 1-tert-butyl ester 4ethyl ester (31.32 g, 83.0 mmol) was dissolved in
ethanol (400 mL). Potassium carbonate (68.72 g) was
added and the mixture was refluxed for 6 hours. The
reaction mixture was cooled, filtered through a bed of
celite, and concentrated in vacuo to give a crude oil.
Purification by flash column chromatography (20-50%
ethyl acetate/hexanes) provided a colorless oil (4.59 g,
15%). Unepimerized ester was also isolated (23.49 g,
75%).

Part F: Preparation of (3R,4S)-3-amino-piperidine-1,4-dicarboxylic acid 1-t-butyl ester 4-ethyl ester

In a dry 500-mL Paar flask charged with palladium

hydroxide (20 wt% Pd, dry basis, on carbon, 1.62 g) was
added methanol (50 mL) and (3R,4S)-4-[(R)-1-Phenylethylamino]-piperidine-1,3-dicarboxylic acid 1-tertbutyl ester (5.41 g, 14.4 mmol). The reaction mixture
was hydrogenated at 60 psi for 24 hours with vigorous

shaking. The reaction mixture was filtered through a
plug of celite. The plug was washed with 20 mL of
ethanol and the combined filtrates were concentrated in
vacuo to give a colorless oil (3.81 g, 100%). H NMR

(300 MHz, CDCl₃), δ: 4.17 (q, J = 7, 2H), 3.04 (m, 1H),

2.71 (m, 2H), 2.49 (m, 2H), 2.25 (m, 1H), 1.46 (s, 9H), 1.28 (t, J = 7, 3H). MS (ESI), m^{+}/z : $(M+H)^{+} = 273$.

Part G: Preparation of (3R,4S)-3-

benzyloxycarbonylamino-piperidine-1,4-dicarboxylic acid 1-t-butyl ester 4-ethyl ester

In a dry flask (3R,4S)-3-aminopiperidine-1,3dicarboxylic acid 1-t-butyl ester 4-ethyl ester (3.81 g, 14.0 mmol) was dissolved in dichloromethane (40 mL) and 10 triethylamine (3.9 mL, 28.0 mmol) and benzyl chloroformate (2.0 mL, 14.0 mmol) were added. mixture was stirred for 18 hours. Water (30 mL) was added and the layers separated. The aqueous layer was extracted with ethyl acetate (30 mL). The combined organic layers were dried with magnesium sulfate, 15 filtered, and concentrated in vacuo to give a crude oil. Purification by flash column chromatography (30% ethyl acetate/hexane) provided a colorless oil (1.19 g, 16%). ¹H NMR (300 MHz, CDCl₃), δ : 7.35 (m, 5H), 5.09 (m, 2H), 20 4.13, (q, J = 7, 2H), 3.88 (m, 2H), 3.78 (m, 1H), 3.17(m, 2H), 2.62 (m, 1H), 1.86 (m, 2H), 1.45 (s, 9H), 1.22 $(t, J \approx 7, 9H)$. MS (ESI), m^{*}/z : $(M+H)^{*} = 407$.

Part H: Preparation of (3R, 4S) -3-

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25 <u>benzyloxycarbonylamino-piperidine-1,4-dicarboxylic acid</u> <u>1-tert-butyl ester</u>

In a flask (3R,4S)-3-benzyloxycarbonylaminopiperidine-1,4-dicarboxylic acid 1-tert-butyl ester 4ethyl ester (1.19 g, 2.93 mmol) was dissolved in tetrahydrofuran (48 mL) and lithium hydroxide (12 mL of a 1N aqueous solution, 15 mmol) was added. The mixture was stirred for 60 hours. The reaction mixture was acidified with aqueous hydrochloric acid (3 mL of a 2M solution) and then extracted with ethyl acetate three times (30 mL). The combined organic layers were dried

with magnesium sulfate, filtered, and concentrated in vacuo to give a crude white solid (1.13 g) which was used without further purification. ^{1}H NMR (300 MHz, CDCl₃), δ : 7.35 (m, 5H), 5.10 (m, 2H), 3.91, (m, 2H), 3.19 (m, 1H), 2.71 (m, 2H), 1.92 (m, 1H), 1.74 (m, 2H), 1.45 (s, 9H). MS (APCI), m^{+}/z : $(M+H)^{+} = 379$.

Part I: Preparation of (3R, 4S)-3-

benzyloxycarbonylamino-4-[(S)-3-(4-fluoro-benzyl)-

10 <u>piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester</u>

In a dry flask (3R,4S)-3-benzyloxycarbonylaminopiperidine-1,4-dicarboxylic acid 1-tert-butyl ester (1.13 g, 3.00 mmol) was dissolved in dichloromethane

- 15 (100 mL) and then triethylamine (1.67 mL, 12.0 mmol) and benzotriazol-1-yloxy-tripyrrolidinophosphonium hexafluorophosphate (1.56 g, 3.00 mmol) were added. The reaction was stirred 18 hours. The reaction mixture was diluted with water (25 mL) and extracted three times
- with ethyl acetate (25 mL). The combined organic extracts were dried with magnesium sulfate, filtered and concentrated in vacuo. The mixture was purified by flash chromatography with 50% ethyl acetate/hexanes to give a white solid (153 mg, 56%). H NMR (300 MHz,
- 25 $CDCl_3$), δ : 7.31 (m, 5H), 7.08 (m, 2H), 6.98 (m, 2H), 5.12 (m, 2H), 5.08 (m, 2H), 4.41 (m, 1H), 3.94 (m, 4H), 3.60 (m, 1H), 3.43 (m, 2H), 2.98 (m, 2H), 2.59 (m, 2H), 2.39 (m, 2H), 1.66 (m, 4H), 1.56 (s, 9H). MS (ESI), m^*/z : $(M+H)^* = 554.4$.

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Part J: Preparation of (3R,4S)-3-amino-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester

In a Paar flask charged with palladium hydroxide 35 (20 wt% on carbon, 0.423 g) was added (3R,4S)-3-

benzyloxycarbonylamino-4-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester (1.41 g, 2.53 mmol) and methanol (30 mL).
The reaction was hydrogenated at 60 psi with vigorous

5 shaking for 65 hours. The reaction mixture was filtered through a bed of celite and then concentrated in vacuo to give a thick oil (1.19 g) which was used without further purification. ¹H NMR (300 MHz, CDCl₃), δ: 7.06
(m, 4H), 4.45 (m, 2H), 4.21 (m, 2H), 3.81 (m, 2H), 3.62

10 (m, 2H), 3.23 (m, 2H), 3.08 (m, 1H), 2.67 (m, 2H), 2.45
(m, 2H), 2.21 (m, 1H), 1.45 (s, 9H). MS (APCI), m²/z:
(M+H)² = 420.3.

Part K: Preparation of (3R,4S)-3-[3-(3-acetyl-phenyl)-15 ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidine-1-carboxylic acid t-butyl ester In a dry flask (3R,4S)-3-amino-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester (77 mg, 0.18 mmol) was dissolved in 20 tetrahydrofuran (2.5 mL) and triethylamine (20 μL, 0.143 mmol) and 3-acetylphenylisocyanate (50 μL, 0.36 mmol) were added. The reaction mixture was stirred for 16 hours. The reaction mixture was concentrated in vacuo and purified by preparative reverse-phase HPLC (10-90% acetonitrile in water with 0.05% trifluoroacetic acid) 25 to give a white amorphous solid (40 mg, 38%). H NMR (300 MHz, CDCl₃), δ : 7.98 (d, J = 8, 1H), 7.83 (m, 2H), 7.74 (m, 1H), 7.65 (m, 2H), 7.56 (m, 1H), 7.46 (m, 1H), 7.01 (m, 2H), 6.87 (m, 1H), 3.09 (m, 1H), 2.51-2.77 (m, 30 7H), 2.42 (m, 1H), 1.23-1.78 (m, 11H), 1.42 (s, 9H). HRMS (ESI), $C_{32}H_{42}FN_4O_5 \text{ m}^+/z$: calc. = 581.3139, found = 581.3142.

Example 14

Preparation of $1-(3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-\{(3R,4S)-4-[(S)-3-acetyl-phenyl)-3-[(S)-3-acetyl-phenyl)-3-[(S)-3-acetyl-phenyl-ph$ (4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-3yl}-urea, trifluoroacetic acid salt

5 In a dry flask (3R,4S)-3-[3-(3-acetyl-phenyl)ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidine-1-carboxylic acid t-butyl ester (25 mg, 0.043 mmol) was dissolved in trifluoroacetic acid. The reaction mixture was stirred for 4 hours. 10 reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-90% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (19 mg, 50%). H NMR (300 MHz, $CDCl_3$), δ : 9.25 (bs, 2H), 8.26 (bs, 1H), 7.96 (m, 1H), 7.52 (m, 1H), 7.38 (m, 2H), 7.15 (m, 1H), 6.94 (m, 4H), 15 4.40 (m, 1H), 4.16 (m, 1H), 3.76 (m, 1H), 3.64 (m, 1H), 3.33 (m, 1H), 3.27 (m, 1H), 3.04 (m, 1H), 2.68 (m, 2H), 2.50 (s, 3H), 2.39 (m, 1H), 1.81 (m, 2H), 1.81 (m, 2H),

20 $C_{27}H_{36}FN_4O_2$ m⁺/z: calc. = 481.2615, found = 481.2622.

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Example 15

1.66 (m, 2H), 1.39 (m, 2H), 1.26 (m, 1H). HRMS (ESI),

Part A: Preparation of (3R,4R)-4-amino-3-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1carboxylic acid t-butyl ester

In a dry flask (3R,4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester (500 mg, 1.19 mmol) was dissolved in borane (50 mL of a 1M solution in tetrahydrofuran, 50 30 mmol). The reaction was stirred 19 hours. The reaction was poured into hydrochloric acid (70 mL of a 1M aqueous solution) and stirred vigorously for 4 hours. reaction mixture was neutralized with saturated aqueous sodium bicarbonate. The layers were separated and the aqueous layer was extracted with ethyl acetate.

organic layers were combined, dried with magnesium sulfate, filtered and concentrated in vacuo. The mixture was purified by flash chromatography using 5-20% methanol in chloroform to give a yellow solid (371 mg,

- 5 77%). ¹H NMR (300 MHz, CDCl₃), δ : 7.08 (m, 2H), 6.97 (t, 2H, J = 8), 4.08 (bs, 2H), 3.70 (bs, 1H), 3.34 (bs, 1H), 3.02 (bt, 1H, J = 9), 2.68 (bm, 2H), 2.32 (bm, 7H), 1.98 (m, 1H), 1.75 (m, 5H), 1.44 (s, 9H), 0.89 (m, 1H).
- Part B: Preparation of (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyll-piperidine-1-carboxylic acid t-butyl ester, trifluoroacetic acid salt
- In a dry flask (3R,4R)-4-amino-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (42 mg, 0.103 mmol) was dissolved in tetrahydrofuran (2 mL) and triethylamine (20 µL, 0.143 mmol) and 3-acetylphenylisocyanate (17 µL, 0.124 mmol) were added. The reaction mixture was stirred for 16
- hours. The reaction mixture was concentrated in vacuo and purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (56 mg, 74%). HNMR (300 MHz, CD₃OD), δ : 8.04 (s, 1H), 7.64 (d, 1H, J = 8),
- 25 7.58 (d, 1H, J = 8), 7.39 (t, 1H, J = 8), 7.18 (m, 2H), 6.99 (t, 2H, J = 9), 4.02 (d, 1H, J = 12), 3.86 (d, 1H, J = 14), 3.62 (s, 4H), 3.53 (d, 2H, J = 10), 3.24 (m, 2H), 3.08 (m, 2H), 2.93 (m, 2H), 2.62 (m, 2H), 2.56 (s, 3H), 1.97 (m, 4H), 1.77 (m, 2H), 1.57 (m, 1H), 1.46 (s,
- 30 9H), 1.23 (m, 1H). HRMS (ESI), $C_{32}H_{44}FN_4O_4$ m⁺/z: calc. = 567.3346, found = 567.3352.

Example 16

<u>Preparation of 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-</u> (4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}urea, bistrifluoroacetic acid salt

5 In a dry flask (3R,4R)-4-[3-(3-acetyl-phenyl)ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (31 mg, 0.055 mmol) was dissolved in dichloromethane (1.5 mL) and trifluoroacetic acid (0.5 mL) was added. 10 reaction mixture was stirred for 4 hours. The reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (19 mg, 50%). 1 H NMR (300 MHz, CD₃OD),

15 δ : 8.06 (s, 1H), 7.62 (m, 2H), 7.38 (m, 2H), 7.14 (m, 2H), 6.95 (t, 2H, J = 9), 3.70 (m, 2H), 3.49 (m, 3H), 3.33 (m, 2H), 3.04 (m, 4H), 2.63 (m, 2H), 2.56 (s, 3H), 2.49 (m, 2H), 2.16 (m, 2H), 1.90 (m, 2H), 1.74 (m, 2H), 1.19 (m, 1H). HRMS (ESI), $C_{27}H_{36}FN_4O_2$ m⁺/z: calc. =

467.2822, found = 467.2822. 20

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Example 17

Preparation of 1-{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-3-(3acetyl-phenyl)-urea, trifluoroacetic acid salt

In a dry flask $1-(3-acetyl-phenyl)-3-\{(3R,4R)-3-acetyl-phenyl)$ [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidin-4-yl}-urea (55 mg, 0.079 mmol) was dissolved in dichloromethane (2 mL), and then triethylamine (55 μ L, 0.39 mmol) and acetyl chloride (10 μ L, 0.14 mmol) were added. The reaction mixture was stirred for 21 The reaction mixture was concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-

35 acid) to give a white amorphous solid (26 mg, 53%). H

80% acetonitrile in water with 0.05% trifluoroacetic

NMR (400 MHz, DMSO-d6, 60 °C), δ : 8.97 (bs, 1H), 8.79 (s, 1H), 8.01 (s, 1H), 7.63 (d, 1H, J = 8), 7.53 (d, 1H, J = 8), 7.39 (t, 1H, J = 8), 7.20 (m, 2H), 7.08 (t, 2H, J = 9), 6.45 (bs, 1H), 4.26 (m, 1H), 3.98 (bm, 2H), 3.61 (m, 2H), 3.47 (m, 2H), 3.26 (bs, 1H), 3.07 (m, 2H), 2.89 (bs, 1H), 2.61 (m, 2H), 2.52 (s, 3H), 2.01 (m, 5H), 1.84 (m, 2H), 1.59 (bm, 3H), 1.12 (m, 1H). HRMS (ESI), $C_{29}H_{38}FN_4O_3$ m⁺/z: calc. 509.2928, found = 509.2942.

10 Example 18

Preparation of 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1methanesulfonyl-piperidin-4-yl}-urea, trifluoroacetic
acid salt

- In a dry flask 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidin-4-yl}-urea (70 mg, 0.10 mmol) was dissolved in dichloromethane (2 mL), and then triethylamine (140 μL, 1.0 mmol) and methanesulfonyl chloride (8 μL, 0.10 mmol) were added. The reaction mixture was stirred for 2 hours at 0 °C. The reaction mixture was quenched with water, concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in
- 25 amorphous solid (31 mg, 47%). H NMR (300 MHz, CD₃OD), δ : 8.04 (s, 1H), 7.61 (m, 2H), 7.40 (t, 1H, J = 12), 7.18 (m, 2H), 6.99 (t, 2H, J = 9), 3.62 (bm, 6H), 3.13 (m, 3H), 2.93 (m, 2H), 2.87 (s, 3H), 2.59 (m, 2H), 2.56 (s, 3H), 2.23 (bs, 1H), 1.98 (bm, 3H), 1.77 (m, 3H),

water with 0.05% trifluoroacetic acid) to give a white

30 1.20 (m, 1H). HRMS (ESI), $C_{28}H_{38}FN_4O_4S$ m⁺/z: calc. 545.2598, found = 545.2591.

Example 19

Preparation of 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-4-yl}-urea, bistrifluoroacetic acid salt

5 In a dry flask $1-(3-acetyl-phenyl)-3-\{(3R,4R)-3-acetyl-phenyl)$ [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidin-4-yl}-urea (83 mg, 0.12 mmol) was dissolved in dichloroethane (5 mL), and then a solution of formaldehyde (240 µL in tetrahydrofuran) was added. 10 reaction mixture was stirred for 5 minutes then triacetoxyborohydride (41 mg, 0.19 mmol) was added. mixture was stirred an additional 3 hours. The reaction was quenched with saturated aqueous sodium bicarbonate (1 mL) then diluted with water. The mixture was 15 extracted with dichloromethane three times, dried with magnesium sulfate, filtered and concentrated in vacuo. Then it was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (47 mg, 55%). NMR (300 MHz, CD₃OD), δ : 8.07 (s, 1H), 7.62 (m, 2H), 20 7.40 (t, 1H, J = 8), 7.14 (m, 2H), 6.96 (t, 2H, J = 9), 3.74 (m, 2H), 3.55 (m, 3H), 3.35 (m, 2H), 3.07 (bm, 4H), 2.90 (s, 3H), 2.65 (m, 2H), 2.56 (s, 3H), 2.47 (m, 1H), 2.05 (bm, 4H), 1.73 (m, 2H), 1.17 (m, 1H). HRMS (ESI),

 $C_{28}H_{38}FN_4O_2 \text{ m}^+/z$: calc. 481.2978, found = 481.2986.

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Example 20

Preparation of 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-{(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-isobutyl
piperidin-4-yl}-urea, bistrifluoroacetic acid salt

In a dry flask 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]
piperidin-4-yl}-urea (97 mg, 0.14 mmol) was dissolved in dichloroethane (5 mL), and i-butyraldehyde (15 µL, 0.165)

mmol) was added. The reaction mixture was stirred for 5 minutes then triacetoxyborohydride (46 mg, 0.22 mmol) The mixture was stirred an additional 2 hours. The reaction was quenched with saturated aqueous sodium bicarbonate (1 mL) then diluted with water. mixture was extracted with dichloromethane three times, dried with magnesium sulfate, filtered and concentrated Then it was purified by preparative reversein vacuo. phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid 10 (38 mg, 36%). 1 H NMR (300 MHz, CD₃OD), δ : 8.07 (s, 1H), 7.61 (m, 2H), 7.41 (m, 1H), 7.14 (m, 2H), 6.96 (m, 2H), 3.90 (bs, 1H), 3.61 (bm, 4H), 3.32 (m, 2H), 3.01 (bm, 6H), 2.62 (m, 2H), 2.56 (s, 3H), 2.49 (bs, 1H), 2.12 (bm, 4H), 1.88 (m, 1H), 1.73 (m, 2H), 1.17 (m, 1H), 1.0315 (m, 6H). HRMS (ESI), $C_{31}H_{44}FN_4O_2$ m⁺/z: calc. 523.3448, found = 523.3453.

Example 21

Preparation of (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)piperidin-1-ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-butyl
ester, trifluoroacetic acid salt

In a dry flask (3R,4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (43 mg, 0.11 mmol) was dissolved in dimethylformamide (1 mL) and [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-carbamic acid phenyl ester (36 mg, 0.12 mmol) was added. The reaction mixture was stirred for 16 hours. The reaction mixture was diluted with ethyl acetate and extracted twice with water and once with brine. The combined organic extract was dried with sodium sulfate, filtered and concentrated in vacuo. Half of the resulting oil was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with

0.05% trifluoroacetic acid) to give a white amorphous solid (24 mg, 63%). ¹H NMR (300 MHz, CD₃OD), δ : 7.98 (s, 1H), 7.52 (m, 2H), 7.42 (m, 1H), 7.17 (m, 2H), 6.99 (t, 2H, J = 8), 4.18 (s, 3H), 4.03 (d, 1H, J = 14), 3.86 (d, 1H, J = 14), 3.64 (td, 1H, J = 9, J' = 5), 3.54 (d, 2H, J = 13), 3.25 (m, 2H), 3.09 (m, 2H), 2.94 (t, 2H, J = 10), 2.60 (m, 3H), 2.03 (bs, 2H), 1.94 (d, 2H, J = 14), 1.77 (t, 2H, J = 11), 1.57 (m, 1H), 1.46 (s, 9H), 1.21 (m, 1H). HRMS (ESI), $C_{32}H_{44}FN_8O_3$ m⁺/z: calc. = 607.3521, 10 found = 607.3518.

Example 22

Preparation of 1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea, bistrifluoroactetic acid salt

In a dry flask (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)piperidin-1-ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-butyl 20 ester (48 mg, 0.079 mmol) was dissolved in dichloromethane (1.5 mL), and trifluoroacetic acid (0.5 mL) was added. The reaction mixture was stirred for 3 The reaction mixture was concentrated in vacuo hours. then purified by preparative reverse-phase HPLC (10-80% 25 acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (22 mg, 38%). H NMR (500 MHz, CD₃OD, 30 °C), δ : 8.01 (t, 1H, J = 1), 7.59 (dq, 1H, J = 8, J' = 1), 7.52 (t, 1H, J = 8), 7.43 (dt,1H, J = 8, J' = 1), 7.17 (m, 2H), 6.96 (t, 2H, J = 9), 30 4.18 (s, 3H), 3.73 (m, 2H), 3.51 (m, 3H), 3.38 (d, 1H, J = 13), 3.13 (m, 2H), 2.99 (m, 2H), 2.64 (dd, 2H, J = 14, J' = 6), 2.50 (bs, 2H), 2.21 (m, 1H), 2.11 (bs, 1H), 1.92 (m, 2H), 1.76 (m, 2H), 1.19 (m, 1H). HRMS (ESI), $C_{27}H_{36}FN_{8}O \text{ m}^{+}/z$: calc. 507.2996, found = 507.2976.

Example 23

Preparation of 5-(3-{(3R,4R)-1-t-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester, trifluoroacetic acid salt

In a dry flask (3R, 4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (48 mg, 0.118 mmol) was dissolved in dimethylformamide (1 mL) and 5-(phenoxycarbonylamino)-1indazolecarboxylic acid 1-tert-butyl ester (47 mg, 0.133 mmol) was added. The reaction mixture was stirred for 16 hours. The reaction mixture was diluted with ethyl acetate, washed twice with water and once with brine. The organic layer was dried with magnesium sulfate, filtered and concentrated in vacuo. Half of the crude product was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (26 mg, 57%). H NMR (300 MHz, CD₃OD), δ : 8.20 (s, 1H) 8.02 (d, 1H, J = 9), 7.95 (s, 1H), 7.47 (dd, 1H, J = 9, J' = 2), 7.17 (m, 2H), 6.99 (t, 2H, J = 9), 4.02 (d, 1H, J = 10), 3.89 (m. 1H), 3.64 (m, 1H), 3.52 (m, 2H), 3.25 (m, 2H), 3.10 (m, 2H), 2.94 (m, 2H), 2.61 (m, 4H), 1.97 (m, 4H), 1.78 (m, 2H), 1.69 (s, 9H), 1.57 (m, 1H), 1.46 (s, 9H), 1.20 (m,

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found = 665.3835.

Example 24

Preparation of 5-(3-{(3S,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyll-piperidin-4-yl}-ureido)-indazole-l-carboxylic acid t-butyl ester, bistrifluoroacetic acid salt

1H). HRMS (ESI), $C_{36}H_{50}FN_{6}O_{5}$ m²/z: calc. = 665.3827,

In a dry flask 5-(3-{(3R,4R)-1-t-butoxycarbony1-3-35 [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-

piperidin-4-yl}-ureido)-indazole-1-carboxylic acid tbutyl ester (56 mg, 0.084 mmol) was dissolved in dichloromethane (1.5 mL) and trifluoroacetic acid (0.5 mL) was added. The reaction mixture was stirred for 3 hours. The reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (29 mg, 43%). H NMR (300 MHz, CD₃OD), δ : 7.95 (s, 1H), 7.84 (s, 1H), 7.46 10 (d, 1H, J = 9), 7.32 (dd, 1H, J = 9, J' = 2), 7.13 (m,2H), 6.95 (t, 2H, J = 9), 3.73 (m, 2H), 3.51 (m, 3H), 3.31 (m, 2H), 3.12 (m, 3H), 2.98 (t, 2H, J = 12), 2.64 (m, 2H), 2.49 (m, 2H), 2.16 (m, 2H), 1.91 (m, 2H), 1.73 (m, 2H), 1.16 (m, 1H). HRMS (ESI), $C_{26}H_{34}FN_6O$ m⁺/z: calc. = 465.2778, found = 465.2780. 15

Example 25

Preparation of (3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyll-piperidine-1-carboxylic acid t-butyl ester, trifluoroacetic acid salt

In a dry flask (3R, 4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (49 mg, 0.121 mmol) was dissolved in 25 dimethylformamide (1 mL) and 4-acetyl-3-methyl-2-(phenoxycarbonylamino)-thiazole (38 mg, 0.138 mmol) was The reaction mixture was stirred for 16 hours. The reaction mixture was diluted with ethyl acetate, washed twice with water and once with brine. 30 organic layer was dried with magnesium sulfate, filtered and concentrated in vacuo. Half of the crude product was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (18 mg, 42%). H NMR 35 (300 MHz, CD₃OD), δ : 7.18 (t, 2H, J = 8), 7.00 (t, 2H, J

= 8), 4.01 (d, 1H, J = 11), 3.84 (d, 1H, J = 14), 3.68 (m, 1H), 3.53 (d, 2H, J = 10), 3.16 (bm, 5H), 2.94 (t, 2H, J = 10), 2.59 (m, 3H), 2.55 (s, 3H), 2.46 (s, 3H), 2.06 (bs, 2H), 1.91 (m, 2H), 1.77 (m, 2H), 1.59 (m, 1H), 1.46 (s, 9H), 1.23 (m, 1H). HRMS (ESI), $C_{30}H_{43}FN_{5}O_{4}S$ m⁺/z: calc. = 588.3020, found = 588.3040.

Example 26

Preparation of 1-(5-acetyl-4-methyl-thiazol-2-yl)-3
10 {(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyll-piperidin-4-yl)-urea, bistrifluoroacetic acid
salt

In a dry flask (3R, 4R)-4-[3-(5-acetyl-4-methylthiazol-2-yl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-15 piperidin-1-ylmethyl]-piperidine-1-carboxylic acid tbutyl ester (47 mg, 0.080 mmol) was dissolved in dichloromethane (1.5 mL) and trifluoroacetic acid (0.5 mL) was added. The reaction mixture was stirred for 3 hours. The reaction mixture was concentrated in vacuo 20 then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (24 mg, 42%). ¹H NMR (300 MHz, CD₃OD), δ : 7.15 (m, 2H), 6.98 (t, 2H, J = 9), 3.74 (m, 2H), 3.48 (m, 3H), 3.05 (bm, 5H), 2.59 (bm, 25 4H), 2.56 (s, 3H), 2.46 (s, 3H), 1.94 (bm, 4H), 1.74 (d, 2H, J = 13), 1.16 (m, 1H). HRMS (ESI), $C_{25}H_{35}FN_5O_2S$ m^{\dagger}/z : calc. = 488.2499, found = 488.2496.

Example 27

30 Part A: Preparation of (3R,4S)-3-amino-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester

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In a dry flask (3R,4R)-3-[3-(3-acetyl-phenyl)-ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester

(1.19 g, 2.84 mmol) was dissolved in borane (100 mL of a 1M solution in tetrahydrofuran, 100 mmol). The reaction was stirred 19 hours. The reaction mixture was concentrated in vacuo and redissolved in 800 mL of ethyl acetate. The solution was poured into hydrochloric acid (140 mL of a 1M aqueous solution) and stirred vigorously for 16 hours. The reaction mixture was neutralized with saturated aqueous sodium bicarbonate. The layers were separated and the aqueous layer was extracted with ethyl 10 acetate. The organic layers were combined, dried with magnesium sulfate, filtered and concentrated in vacuo. The mixture was purified by flash chromatography using 20-0% hexane/ethyl acetate to give a light yellow solid (0.259 g, 22%). H NMR $(300 \text{ MHz}, \text{CD}_3\text{OD})$, δ : 7.18 (m,

- 15 2H), 7.04 (m, 2H), 4.37 (m, 2H), 4.19 (m, 2H), 3.47 (m, 1H), 3.20 (m, 1H), 2.89 (m, 1H), 2.68 (m, 2H), 2.52 (m, 4H), 1.88 (m, 2H), 1.75 (m, 2H), 1.55 (m, 2H), 1.45 (m, 2H), 1.44 (s, 9H). MS (ESI), m*/z: (M+H)* = 406.
- 20 Part B: Preparation of (3R,4S)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester, trifluoroacetic acid salt

In a dry flask (3R,4S)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester (207 mg, 0.511 mmol) was dissolved in tetrahydrofuran (2 mL) and triethylamine (140 μL, 101 mmol) and 3-acetylphenylisocyanate (68 μL, 0.496 mmol) were added. The reaction mixture was stirred for 16 hours. The reaction mixture was concentrated in vacuo and purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (193 mg, 69%). ¹H NMR (300 MHz, CD₃OD), δ: 8.57 (m, 1H), 8.20 (m, 1H), 7.60

(m, 2H), 6.90 (m, 4H), 4.28 (m, 2H), 3.66 (m, 2H), 3.30 (m, 2H), 2.33-2.61 (m, 12H), 2.02 (m, 2H), 1.79 (m, 2H), 1.65 (m, 2H), 1.46 (s, 9H). HRMS (ESI), $C_{32}H_{44}FN_4O_4$ m⁺/z: calc. = 567.3347, found = 567.3346.

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Example 28

Preparation of 1-(3-acetyl-phenyl)-3-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-urea, bistrifluoroacetic acid salt

- In a dry flask (3R,4S)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid t-butyl ester was trifluoroacetic acid (10 mL) was added. The reaction mixture was stirred for 10 minutes. The reaction
- mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (13 mg, 38%). ¹H NMR (400 MHz, DMSO-d6, 120 °C), δ: 10.02 (bs, 1H), 9.64 (bs, 1H), 9.25 (bs,
- 20 lH), 8.20 (s, lH), 7.93 (bs, lH), 7.51 (d, J = 6, lH), 7.33 (m, 2H), 6.99 (t, J = 6, 2H), 6.88 (t, J = 6, 2H), 3.91 (m, lH), 3.78 (m, lH), 3.67

(m, 1H), 3.43 (m, 2H), 3.09 (m, 2H), 2.80 (m, 2H), 2.55 (s, 3H), 2.53 (m, 3H), 2.22 (m, 2H), 1.82 (m, 6H), 1.08

25 (m, 1H). HRMS (ESI), $C_{27}H_{34}FN_{4}O_{3}$ m⁺/z: calc. = 467.2822, found = 467.2828.

Example 29

Part A: Preparation of (3S,4R)-4-[(R)-1-Phenyl-30 ethylamino]-piperidine-1,3-dicarboxylic acid 1-tertbutyl ester

In a dry flask (3R,4R)-4-[(R)-1-Phenyl-ethylamino]-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-methyl ester (4.50 g, 12.4 mmol) was dissolved in tetrahydrofuran (170 mL) and t-butanol (11 mL), and

sodium t-butoxide (04.85 g, 50.5 mmol) was added. The reaction mixture was stirred for 16 hours. Water was added and the mixture was extracted with ethyl acetate five times. There was minimal residue after

5 concentration in vacuo of the combined organic extracts. The aqueous extract was acidified to pH 3 with 1N hydrochloric acid, saturated with sodium chloride and then extracted five times with ethyl acetate. The combined organic layers were dried with magnesium

10 sulfate, filtered and concentrated in vacuo to give an orange glass (2.11 g, 49%). MS (ESI), m*/z: (M+H)* = 349.2.

Part B: Preparation of (3S,4R)-4-amino-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester

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In a dry 500-mL Paar flask charged with Palladium hydroxide (20 wt% Pd, dry basis, on carbon, 0.22 g) was added methanol (50 mL) and (3S,4R)-4-[(R)-1-Phenyl-ethylamino]-piperidine-1,3-dicarboxylic acid 1-tert-butyl ester (2.11 g, 6.05 mmol). The reaction mixture was hydrogenated at 53 psi for 42 hours with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of ethanol and the combined filtrates were concentrated in vacuo to give a colorless oil (1.32 g, 89%). H NMR (300 MHz, CDCl₃), δ: 4.38 (bd, J = 12, 1H), 4.16 (m, 1H), 3.30 (m, 1H), 2.70 (m, 2H), 1.90-2.40 (m, 5H), 1.45 (s, 9H). MS (ESI), m*/z: (M+H)* = 245.1.

30 Part C: Preparation of (3S,4R)-4benzyloxycarbonylamino-piperidine-1,3-dicarboxylic acid 1-t-butyl ester

In a dry flask (3S,4R)-4-aminopiperidine-1,3-dicarboxylic acid 1-tert-butyl ester (1.32 g, 5.40 mmol) was dissolved in dichloromethane (30 mL) and

triethylamine (1.0 mL, 7.2 mmol) and benzyl chloroformate (0.94 mL, 5.9 mmol) were added. mixture was stirred for 18 hours. Water (30 mL) was added and the layers separated. The aqueous layer was extracted with dichloromethane (30 mL). The combined organic layers were washed with brine, dried with magnesium sulfate, filtered, and concentrated in vacuo to give a crude oil (2.13 g). Purification by flash column chromatography (5-20% methanol/chloroform) . 10 provided a colorless oil (1.29 g, 63%). H NMR (400 MHz, DMSO-d6, 120°C), δ : 7.34 (m, 5H), 6.76 (bs, 1H), 5.04 (s, 2H), 4.01, (bs, 1H), 3.78 (dd, J = 14, J' = 7, 1H), 3.47 (m, 2H), 3.26 (m, 1H), 2.67 (dt, J = 7, J' =4, 1H), 2.49 (m, 1H), 1.79 (m, 1H), 1.59 (m, 1H), 1.40 15 (s, 9H). MS (ESI), m^{+}/z : $(M+Na)^{+} = 401$.

Part D: Preparation of (3S,4R)-4benzyloxycarbonylamino-3-[(S)-3-(4-fluoro-benzyl)piperidine-1-carbonyl]-piperidine-1-carboxylic acid tbutyl ester

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In a dry flask (3S,4R)-4-benzyloxycarbonylaminopiperidine-1,3-dicarboxylic acid 1-tert-butyl ester (0.18 g, 0.48 mmol) was dissolved in dichloromethane (7 mL) and then triethylamine (150 μ L, 1.08 mmol) and 25 benzotriazol-1-yloxy-tripyrrolidinophosphonium hexafluorophosphate (0.30 g, 0.58 mmol) were added. reaction was stirred 18 hours. The reaction mixture was diluted with dichloromethane (25 mL) and extracted twice with water (15 mL). The combined aqueous extracts were 30 extracted with dichloromethane (25 mL). The combined organic extracts were dried with magnesium sulfate, filtered and concentrated in vacuo. The mixture was purified by flash chromatography with 50% ethyl acetate/hexanes to give a white solid (153 mg, 56%). H NMR (300 MHz, CDCl₃), δ : 7.33 (m, 5H), 7.02 (m, 4H), 35

5.55 (m, 1H), 5.08 (m, 2H), 4.19-4.48 (m, 1H), 3.96 (bs, 1H), 3.50 (m, 5H), 3.00 (m, 1H), 2.51 (m, 4H), 2.05 (m, 1H), 1.63 (m, 5H), 1.42 (s, 9H), 1.20 (m, 1H). MS (ESI), m^{+}/z : $(M+H)^{+} = 554.4$.

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Part E: Preparation of (3S,4R)-4-amino-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester

In a dry 500-mL Paar flask charged with palladium 10 (10 wt% Pd, dry basis, on carbon, 31 mg) was added methanol (10 mL) and (3S,4R)-4-benzyloxycarbonylamino-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]piperidine-1-carboxylic acid t-butyl ester (150 mg, 2.08 mmol). The reaction mixture was hydrogenated at 45 psi 15 for 20.5 hours with vigorous shaking. The reaction mixture was filtered through a plug of celite. The plug was washed with 20 mL of ethanol and the combined filtrates were concentrated in vacuo to give a colorless oil (111 mg, 98%). H NMR (300 MHz, CDCl₃), δ : 8.75 (bs, 2H), 7.09 (m, 2H), 6.97 (m, 2H), 4.30 (m, 1H), 4.01 (m, 2H), 3.70 (m, 2H), 3.25 (m, 1H), 3.10 (m, 1H), 2.75 (m, 1H), 2.48 (m, 4H), 1.82 (m, 5H), 1.42 (s, 9H), 1.21 (m, 2H). MS (ESI), m^{+}/z : $(M+H)^{+} = 420.3$.

25 Part F: Preparation of (3S,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carboxylic acid t-butyl ester

In a dry flask (3S,4R)-4-amino-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester (43 mg, 0.10 mmol) was dissolved in tetrahydrofuran (2 mL) and then triethylamine (19 μ L, 0.14 mmol) and 3-acetylphenylisocyanate (17 μ L, 0.12 mmol) were added. After stirring for 18 hours, removed half of the reaction mixture for purification. The remainder of the reaction mixture was taken onto the

next reaction without purification. The aliquot was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (17 mg, 57%). H NMR (400 MHz, DMSO-d6, 120 °C), δ: 8.64 (s, 1H), 7.94 (m, 1H), 7.57 (d, J = 8, 1H), 7.46 (d, J = 8, 1H), 7.33 (t, J = 8, 1H), 7.17 (m, 2H), 7.00 (t, J = 9, 2H), 6.13 (d, J = 8, 1H), 4.07 (m, 1H), 3.87 (m, 1H), 3.61 (m, 1H), 3.42 (dd, J = 14, J' = 4, 1H), 3.32 (m, 1H), 2.98 (m, 1H), 2.70 (m, 1H), 2.50 (m, 1H), 2.49 (s, 3H), 2.02 (m, 1H), 1.73 (m, 3H), 1.53 (m, 1H), 1.39 (s, 9H), 1.22 (m, 2H). HRMS (ESI), C₃₂H₄₂FN₄O₅ m⁺/z: calc. = 581.3139, found = 581.3149.

15 Example 30

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Preparation of 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-urea, trifluoroacetic acid salt

In a dry flask (3S, 4R)-4-[3-(3-acetyl-phenyl)-20 ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidine-1-carboxylic acid t-butyl ester (17 mg, 0.029 mmol in 1 mL of tetrahydrofuran) was concentrated in vacuo, redissolved in dichloromethane (1 mL), and trifluoroacetic acid (0.5 mL) was added. 25 reaction mixture was stirred for 4 hours. The reaction mixture was concentrated in vacuo then purified by preparative reverse-phase HPLC (10-80% acetonitrile in . water with 0.05% trifluoroacetic acid) to give a white amorphous solid (13 mg, 38%). H NMR (400 MHz, DMSO-d6, 120 °C), δ : 8.49 (s, 1H), 8.24 (bs, 2H), 7.93 (s, 1H), 30 7.58 (d, J = 9, 1H), 7.49 (d, J = 7, 1H), 7.35 (t, J = 7) 8, 1H), 7.12 (t, J = 8, 2H), 6.97 (t, J = 9, 2H), 6.28(d, J = 8, 1H), 4.17 (m, 1H), 3.83 (m, 1H), 3.46 (bs,1H), 3.27 (m, 1H), 3.13 (m, 3H), 2.97 (m, 3H), 2.47 (s,

3H), 2.01 (m, 1H), 1.82 (m, 2H), 1.67 (m, 2H), 1.37 (m,

1H), 1.20 (m, 1H). HRMS (ESI), $C_{27}H_{34}FN_4O_3$ m^{*}/z: calc. = 481.2615, found = 481.2632.

Example 31

Preparation of (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3[(S)3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid methyl ester,
trifluoroacetic acid salt

In a dry flask 1-(3-acetyl-phenyl)-3-{(3R,4R)-3[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-

- piperidin-4-yl}-urea (47 mg, 0.07 mmol) was dissolved in
 dichloromethane (2 mL), and then triethylamine (70 μL,
 0.50 mmol) and methyl chloroformate (7 μL, 0.09 mmol)
 were added. The reaction mixture was stirred for 17
 hours. The reaction mixture was concentrated in vacuo
- then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (17 mg, 38%). 1 H NMR (300 MHz, CD₃OD), δ : 8.04 (s, 1H), 7.63 (d, 1H, J =
- 8), 7.57 (d, 1H), J = 10), 7.39 (t, 1H, J = 8), 7.18 (m, 2H), 6.99 (t, 2H, J = 9), 4.05 (d, 1H, J = 14), 3.88 (m, 1H), 3.69 (s, 3H), 3.64 (m, 1H), 3.52 (bm, 2H), 3.27 (m, 2H), 3.17-2.89 (m, 4H), 2.64 (m, 2H), 2.56 (s, 3H), 2.08 (bs, 2H), 1.94 (d, 2H, J = 14), 1.77 (m, 2H), 1.60 (m,

1H), 1.23 (m, 1H). HRMS (ESI), $C_{29}H_{38}FN_4O_4$ m⁺/z: calc.

25 525.2877, found = 525.2879.

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Example 32

Preparation of 1-(3-acetyl-phenyl)-3-{(3R,4R)-1-(2,2-dimethyl-propionyl)-3-[(S)3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea

In a dry flask 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea (43 mg, 0.07 mmol) was dissolved in dichloromethane (2 mL), and then triethylamine (65 μ L,

0.47 mmol) and pivaloyl chloride (12 µL, 0.10 mmol) were added. The reaction mixture was stirred for 17 hours. The reaction mixture was concentrated in vacuo then was purified by preparative reverse-phase HPLC (10-80% acetonitrile in water with 0.05% trifluoroacetic acid) to give a white amorphous solid (18 mg, 38%). H NMR (300 MHz, CD₃OD), δ : 8.04 (s, 1H), 7.64 (d, 1H, J = 7), 7.58 (dd, 1H, J = 7, J' = 1), 7.40 (t, 1H, J = 8), 7.19 (m, 2H), 6.99 (t, 2H, J = 9), 4.27 (d, 1H, J = 14), 4.14 10 (d, 1H, J = 15), 3.71 (m, 1H), 3.48 (bm, 3H), 3.25 (m,2H), 3.07 (m, 1H), 2.95 (m, 2H), 2.66 (m, 2H), 2.57 (s, 3H), 1.98 (m, 4H), 1.76 (m, 2H), 1.62 (m, 1H), 1.28 (s, 9H), 1.20 (m, 1H). HRMS (ESI), $C_{32}H_{44}FN_4O_3$ m⁺/z: calc. 551.3397, found = 551.3402.

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Example 44

To a stirring solution of pivaloyl chloride (3.39

Part A: Preparation of (R)-4-Benzyl-3-[5-(tert-butyl-diphenyl-silanyloxy)-pentanoyl]-oxazolidin-2-one

20 mL, 27.5 mmol) and triethylamine (4.39 mL, 31.4 mmol) in dry ether in a flame-dried round bottom flask under ${\tt N}_2$ at 0 °C was added 5-(tert-butyl-diphenyl-silanyloxy)pentanoic acid prepared according to procedures of Barrett, A. G. M.; et al J. Org. Chem. (1989).25 54(14), 3321 (9.35 g, 26.2 mmol). The reaction was warmed to room temperature, and, after 25 min, the white precipitate was removed by filtration. The filtrate was concentrated in vacuo to a colorless oil. The oil was dissolved in dry ether (6 mL) and added via cannula to a 30 solution of lithiated oxazolidinone prepared by treating a solution of oxazolidinone (4.64 g, 26.2 mmol) in dry THF (150 mL) in a flame-dried round bottom flask under N_2 at -78 °C with n-butyllithium in hexane (22.4 mL, 1.17 M) until the solution became pale yellow in color.

The reaction was stirred for 40 min and then poured into 1N aqueous hydrogen chloride. The reaction was extracted with ethyl acetate (3 \times 150 mL). The organic layers were combined, washed with saturated aqueous sodium bicarbonate, brine, dried over sodium sulfate, and concentrated in vacuo to a colorless oil. The oil was purified by flash chromatography (SiO₂, 5-30% ethyl acetate in hexanes) to yield 10.9 g (80.7%) of a white solid. MS (APCI), m^*/z : (M + H)⁺ = 516.5.

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Part B: Preparation of (4R)-4-Benzyl-3-{(2R,3R)-2-[3-(tert-butyl-diphenyl-silanyloxy)-propyl]-3-hydroxy-5-phenyl-pent-4-enoyl}-oxazolidin-2-one

To a stirring solution of (R)-4-benzyl-3-[5-(tert-15 butyl-diphenyl-silanyloxy)-pentanoyl]-oxazolidin-2-one (1.64 g, 3.19 mmol) in dry methylene chloride (15.9 mL) in a flame dried round bottom flask under N₂ at 0 °C was added titanium(TV) chloride (386 μ L, 3.51 mmol). After 5 min, (-)-sparteine (1.83 mL, 7.97 mmol) was added.

After 20 min, trans-cinnamaldehyde (442 μL, 3.51 mmol) was added dropwise to the purple suspension, and the resulting pale green-yellow solution was stirred for 1 h. The reaction was quenched by the addition of 50% saturated ammonium chloride (50 mL), diluted with water

25 (100 mL), and then extracted with methylene chloride (3 × 30 mL). The organic layers were combined, washed with brine, dried over sodium sulfate, and concentrated in vacuo to a colorless oil. The oil was purified by flash chromatography (SiO₂, 15-30% ethyl acetate in hexanes)

to yield 1.72 g (83.1%) of the desired product as a white solid. MS (APCI), m^{+}/z : $(M + H)^{+} = 648$.

Part C: Preparation of (4R)-4-Benzyl-3-[(2R,3R)-3-hydroxy-2-(3-hydroxy-propyl)-5-phenyl-pent-4-enoyl]-oxazolidin-2-one

To a stirring solution of (4R)-4-benzyl-3-{(2R,3R)-2-[3-(tert-butyl-diphenyl-silanyloxy)-propyl]-3-hydroxy-5-phenyl-pent-4-enoyl}-oxazolidin-2-one (1.80 g, 2.78 mmol) in pyridine (7.20 mL) in a nalgene vial at 0 °C was added hydrogen fluoride-pyridine (3.6 mL). After 20 min, additional 1 mL aliquots of hydrogen fluoridepyridine were added to the reaction solution until no starting material was detected by thin-layer chromatography. The reaction was made basic with 10 saturated aqueous sodium bicarbonate, acidified with 6N aqueous hydrogen chloride (100 mL), and washed with ethyl acetate (3 \times 50 mL). The combined organics were dried over sodium sulfate, concentrated in vacuo, and the resulting residue was purified by flash chrom. 15 $(SiO_2, 50-80\%)$ ethyl acetate in hexanes) to give 1.0 g (87.7%) of the desired diol as a foamy white solid. MS (ESI), m^{\dagger}/z : $(M + Na)^{\dagger} = 432.2$.

Part D: Preparation of (4R)-4-Benzyl-3-[(2R,3R)-2-20 styryl-tetrahydro-pyran-3-carbonyl]-oxazolidin-2-one To a stirring solution of (4R)-4-benzy1-3-[(2R,3R)-3-hydroxy-2-(3-hydroxy-propyl)-5-phenyl-pent-4-enoyl]oxazolidin-2-one (3.88 g, 9.49 mmol) in anhydrous methylene chloride (100 mL) in a flame-dried round bottom flask under N_2 at -78 °C was added 2,6-lutidine 25 (2.76 mL, 23.7 mmol). Trifluoromethanesulfonic anhydride (1.68 mL, 9.96 mmol) was then added dropwise; after 5 min, the reaction was quenched with saturated aqueous sodium bicarbonate (50 mL), the layers were 30 separated, and the aqueous layer was washed with methylene chloride (2 x 50 mL). The combined organic layers were dried over sodium sulfate, concentrated in vacuo, and purified by flash chromatography (SiO2, 20-30% ethyl acetate in hexanes) to yield a pale yellow 35 oil. The resulting oil was diluted with ethyl acetate

(50 mL), the organic layer was washed once with 1N aqueous hydrogen chloride (50 mL) to remove residual 2,6-lutidine, and the ethyl acetate was concentrated in vacuo to yield the desired tetrahydropyran (2.35g, 63.3%) as a pale yellow oil. MS (APCI), m^*/z : (M + H) * = 392.4.

Part E: Preparation of (2R,3R)-2-Styryl-tetrahydropyran-3-carboxylic acid

10 To a stirring solution of (4R)-4-benzy1-3-[(2R,3R)-2-styryl-tetrahydro-pyran-3-carbonyl]-oxazolidin-2-one (177 mg, 0.453 mmol) in 4:1 tetrohydrofuran:water (2.27 mL) at 0 °C was added lithium hydroxide (17.3 mg, 0.724 mmol) dissolved in 900 µL of water. To the resulting 15 solution was added 30 wt% aqueous hydrogen peroxide (205 μL) dropwise, and the now pale yellow solution was stirred for 30 min. The solution was then poured into water (50 mL) containing a 1.5 mL-aliquot of 1.3 M sodium sulfite, and the resulting ageuous layer was 20 acidified with 6N aqueous hydrogen chloride (10 mL). The aqueous layer was washed with ethyl acetate (3×50) mL), and the combined organic layers were washed with brine (15 mL), dried over sodium sulfate, and concentrated in vacuo. The resulting residue was 25 purified by flash chromatography (SiO2, 33% ethyl acetate in hexanes) to yield the desired product 100 mg (95%) as a pale yellow oil. MS (ESI), m^{\dagger}/z : $(M + H)^{\dagger} =$ 233.2.

30 Part F: Preparation of [(2R,3R)-2-Styryl-tetrahydro-pyran-3-yl]-carbamic acid tert-butyl ester

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To a stirring solution of (2R,3R)-2-styryltetrahydro-pyran-3-carboxylic acid (106 mg, 0.456 mmol) in anhydrous tert-butanol (5 mL) under nitrogen in a flame-dried round bottom flask was added sequentially

triethylamine (95 μ L, 0.684 mmol) and diphenylphosphoryl azide (98 μ L, 0.456 mmol). The reaction was warmed to reflux conditions and maintained at reflux for 15 h. The reaction solution was then cooled to 23 °C, concentrated, and purified by flash chromatography (SiO₂, 30% ethyl acetate in hexanes) to yield the desired carbamate (76.4 mg, 55.5%) as a white solid. MS (ESI), m^*/z : (M + H)⁺ = 304.3.

10 Part G: Preparation of [(2R,3R)-2-formyl-tetrahydro-pyran-3-yl]-carbamic acid tert-butyl ester

Through a stirring solution of [(2R,3R)-2-styryl-tetrahydro-pyran-3-yl]-carbamic acid tert-butyl ester (27 mg, 0.089 mmol) in methanol (2 mL) at -78 °C was bubbled ozone until the reaction solution was blue in color. Excess triphenylphosine (500 mg) was added, and the reaction was allowed to warm to 23 °C. The resulting mixture was concentrated and purified by flash chromatography (SiO₂, 7-40% ethyl acetate in hexanes) to give the desired aldehyde (20 mg, 98%) as a pale yellow oil. MS (APCI), m⁺/z: (M + H)⁺ = 230.

Part H: Preparation of {(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-carbamic acid tert-butyl ester

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To a stirring solution of [(2R,3R)-2-formy1-tetrahydro-pyran-3-y1]-carbamic acid tert-butyl ester (20 mg, 0.0873 mmol) in 1,2-dichloroethane (2 mL) in a flame-dried round bottom flask under nitrogen was added (S)-(+)-3-(4-fluorobenzyl)piperidine (R)-mandelate (36.2 mg, 0.105 mmol). To this suspension was added methanol (200 μ L), and the resulting solution was treated with sodium triacetoxyborohydride (36 mg, 0.170 mmol). The cloudy yellow suspension was stirred for 15 h and then poured into 1N hydrogen chloride (50 mL). The aqueous

layer was basified with 12N aqueous sodium hydroxide and then extracted with ethyl acetate $(3 \times 50 \text{ mL})$. The combined organic layers were washed with brine (30 mL), dried over sodium sulfate, and concentrated in vacuo. The resulting residue was purified by flash chromatography to yield the desired carbamic acid (33.1 mg, 93.5%) as a yellow oil. MS (AP^+) , m^+/z : $(M + H)^+ = 407.5$.

- 10 Part I: Preparation of (2S, 3R) -2-[(S)-3-(4-Fluorobenzyl)-piperidin-1-ylmethyll-tetrahydro-pyran-3-ylamine To $\{(2S, 3R) - 2 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - fluoro - benzyl) - piperidin - 1 - fluoro - benzyl)$ ylmethyl]-tetrahydro-pyran-3-yl}-carbamic acid tertbutyl ester (33 mg, 0.0813 mmol) was added 4 M hydrogen 15 chloride in dioxane (7 mL). After stirring for one hour, the solution was concentrated in vacuo to give (2S, 3R) - 2 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 ylmethyl]-tetrahydro-pyran-3-ylamine dihydrochloride as a pale yellow residue (30.8 mg, 100%). This residue was 20 dissolved in ethyl acetate and poured into 1N sodium hydroxide (20 mL). The layers were separated, and the resulting aqueous layer was washed with ethyl acetate (3 ×50 mL). The combined organic layers were washed with brine (20 mL), dried over sodium sulfate, and 25 concentrated in vacuo to yield (2S, 3R)-2-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3ylamine (24.9 mg, 100%) as a pale yellow oil. MS (APCI), m^{+}/z : $(M + H)^{+} = 307.4$.
- Part J: Preparation of 1-(3-Acetyl-phenyl)-3-{(2S,3R)-2-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyll-tetrahydro-pyran-3-yl}-urea

 To a solution of (2S,3R)-2-[(S)-3-(4-fluoro-

benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-ylamine 35 dihydrochloride (16 mg, 0.043 mmol - prepared according

to Part I) and excess triethylamine (100 μ L, 0.719 mmol) in methylene chloride (1 mL) was added 3-acetylphenyl isocyanate (6.9 mg, 0.043) dissolved in methylene chloride (1 mL). The resulting yellow solution was shaken vigorously for 20 sec, and allowed to stand at 23 °C for 10 min. The solution was then concentrated in vacuo, and the resulting residue was purified by flash chromatography (5% methanol in methylene chloride) to yield the desired urea (13 mg, 65%) as a pale yellow oil. MS (ESI), m^*/z : (M + H) = 468.3.

Example 45

Preparation of 1-{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea, trifluoroacetic acid salt

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To a stirring solution of (2S,3R)-2-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3ylamine (24 mg, 0.078 mmol) in anhydrous acetonitrile (1 20 mL) in a flame-dried round bottom flask under nitrogen was added [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]carbamic acid phenyl ester (22.8 mg, 0.077 mmol). The resulting solution was stirred for 15 h and was then concentrated. Purification of the resulting residue via 25 flash chromatography (5% methanol in dichloromethane) gave 27.3 mg (68%) of a slightly impure off-white solid. This solid was further purified by preparative reversephase HPLC (10-90% acetonitrile in water with 0.05% trifluoroacetic acid) to give the desired product (12.7 30 mg, 31.8%) as an amorphous solid. MS (ESI), m^{\dagger}/z : (M + $H - CF_3CO_2)^{\dagger} = 508.4.$

Example 46

Preparation of 1-[3-(5-Acetyl-4-methyl-thiazol-2-yl)-phenyl]-3-{(2S,3R)-2-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-urea

To a stirring solution of (2S,3R)-2-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3ylamine (10 mg, 0.033 mmol) in anhydrous acetonitrile (1 mL) in a flame-dried round bottom flask was added [5-5 acetyl-4-methyl-thiazol-2-yl)- carbamic acid phenyl ester (11 mg, 0.039 mmol). The resulting solution was stirred for 15 h and was then concentrated. Purification of the resulting residue via flash chromatography (5% methanol in methylene chloride) 10 followed by preparative reverse-phase HPLC (10-90% acetonitrile in water with 0.05% trifluoroacetic acid) gave an amorphous solid. The resulting amorphous solid was dissolved in ethyl acetate (10 mL) and washed with saturated aqueous sodium bicarbonate (20 mL). 15 aqueous layer was washed with ethyl acetate (10 mL) and the organic layers were combined, dried over sodium sulfate, and concentrated in vacuo to yield the desire product (10.2 mg, 63.8%) as an amorphous solid. MS (APCI), m^{\dagger}/z : $(M + H)^{\dagger} = 489.6$.

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Example 47

Part A: Preparation of (2R,3R)-3-tert-

Butoxycarbonylamino-tetrahydro-pyran-2-carboxylic acid

To a stirring solution of [(2R,3R)-2-formyl-tetrahydro-pyran-3-yl]-carbamic acid tert-butyl ester (57.7 mg, 0.251 mmol)in methylene chloride (2 mL) was added tetramethyl-ammonium bromide (4.1 mg, 0.012 mmol) and 2,2,6,6-tetramethyl-1-piperidinyloxy, free radical (1 mg, 0.003 mmmol), followed by a solution of potassium bromide (3 mg, 0.03 mmol) in water (1 mL). Upon cooling the mixture to 0 °C, aqueous sodium hypochlorite (3.6 mL, 0.35 M) made pH 8.6 with sodium bicarbonate (50 mg/mL of 0.35 M NaOCl) was added, and the resulting yellow/orange mixture was stirred vigorously for 5 min. The reaction was poured into 1N aqueous sodium hydroxide

(50 mL), acidified with 1N aqueous hydrogen chloride (55 mL), and washed with ethyl acetate (3 \times 50 mL). The combined organic layers were dried over sodium sulfate, concentrated in vacuo, and the resulting residue was purified by flash chromatography (SiO₂, 30-50% ethyl acetate in hexanes then 70% ethyl acetate in hexanes containing 5% acetic acid and 1% methanol) to give the desired product (55.5 mg, 89.5%) as a foamy solid. MS (ESI), m^{-}/z : (M - H) = 244.

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Part B: Preparation of {(2R,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-yl}-carbamic acid tert-butyl ester

To a stirring solution of (2R,3R)-3-tert-butoxy-15 carbonylamino-tetrahydro-pyran-2-carboxylic acid (55.5 mg, 0.226 mmol) in dichloromethane (2.5 mL) in a flamedried round bottom flask under nitrogen was added benzotriazol-1-yloxytripyrrolidinophosphonium hexafluorophosphate (110 mg, 0.249 mmol) and 20 triethylamine (63 µL, 0.452 mmol). The reaction was allowed to stir for 10 min before the addition of (S)-3-(4-fluoro-benzyl) - piperidine (52.3 mg, 0.271 mmol) in one portion. After an additional 10 min, the solution was poured into saturated aqueous sodium bicarbonate (20 25 mL), and the aqueous layer was washed with ethyl acetate (3 ×50 mL). The combined organic layers were washed with saturated aqueous sodium chloride (20 mL), dried over sodium sulfate, and concentrated. The resulting residue was purified by flash chromatography (SiO2, 10-30 30% ethyl acetate in hexanes) to yield the desired carbamic acid (56 mg, 59%) as a white solid. MS (APCI), m^{+}/z : $(M + H)^{+} = 421.5$.

Part C: Preparation of (2R,3R)-(3-Amino-tetrahydro-pyran-2-yl)-[(S)-3-(4-fluoro-benzyl)-piperidin-1-yl]-methanone hydrochloride

To {(2R,3R)-2-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-yl}-carbamic acid tertbutyl ester (56 mg, 0.133 mmol) was added 4 M hydrogen chloride in dioxane (10 mL). The resulting pale yellow solution was allowed to stir for 20 min and was then concentrated to give the desired product (43 mg, 100%) 10 as a pale yellow oil. MS (ESI), m*/z: (M + H)* = 321.3.

Part D: Preparation of 1-(3-Acetyl-phenyl)-3-{(2R,3R)-2-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-yl}-urea

To a solution of (2R,3R)-(3-amino-tetrahydro-pyran-2-yl)-[(S)-3-(4-fluoro-benzyl)-piperidin-1-yl]-methanone hydrochloride (14 mg, 0.044 mmol) in dichloromethane (500 μL) containing an excess of triethylamine (100 μL, 0.719 mmol) was added 3-acetylphenyl isocyanate (7.0 mg, 0.044 mmol) in methylene chloride (500 μL). The resulting yellow solution was shaken vigorously for 20 sec and allowed to sit at 23 °C before being concentrated. The resulting residue was purified by flash chormatography (SiO₂, 50-90 ethyl acetate in hexanes, then 90% ethyl acetate in hexanes containing 2% methanol) to yield the desired urea (18 mg, 85.3%) as a

Example 48

Preparation of 1-{(2R,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-yl)-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea

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white solid. MS (ESI), m^{+}/z : $(M + H)^{+} = 482.6$.

In a single portion was added [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-carbamic acid phenyl ester (14.2 mg, 0.0481 mmol) in anhydrous acetonitrile (1 mL) to

(2R, 3R) - (3-amino-tetrahydro-pyran-2-yl) - [(S)-3-(4-yl)]fluoro-benzyl)-piperidin-1-yl]-methanone (14 mg, 0.044 mmol) that had been derived from treatment of (2R,3R)-(3-amino-tetrahydro-pyran-2-yl)-[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-methanone hydrochloride in ethyl acetate with 1N sodium hydroxide, brine, and concentration in vacuo. The pale yellow solution containing carbamic acid pheny ester and methanone was treated with N, N-dimethylformamide (500 µL) and stirred 10 for 15 hours. Additional carbamic acid phenyl ester (14.2 mg, 0.0481 mmol) was added, the resulting solution was heated for 6 hr at 35 °C, and it was then cooled to room temperature. After stirring for an additional 12 hours, the reaction was concentrated and the resulting 15 residue was purified by flash chromatography (45% methylene chloride in ethyl acetate containing 5% methanol) to yield the desired urea (14 mg, 59%) as an off white solid. MS (ESI), m^{\dagger}/z : $(M + H)^{\dagger} = 522.5$. Example 49 Preparation of 1-[3-(5-Acetyl-4-methyl-thiazol-2-yl)-20 phenyl] $-3 - \{(2R-3R) - 2 - [(S) - 3 - (4 - fluoro - benzyl) - (4 - fluoro$ piperidine-1-carbonyl]-tetrahydro-pyran-3-yl}-urea To (2R, 3R) - (3-amino-tetrahydro-pyran-2-y1) - [(S)-3-(4-fluoro-benzyl)-piperidin-1-yl]-methanone (15 mg, 25 0.044 mmol- prepared as in Example 50) in anhydrous acetonitrile (1 mL) was added [5-acetyl-4-methylthiazol-2-yl) - carbamic acid phenyl ester (13.3 mg, 0.0481 mmol). The resulting pale yellow solution was

N,N-dimethylformamide (500 μL). The resulting cloudy mixture was then heated for 3 hr at 35 °C before being cooled to 23 °C. Upon concentration, the resulting residue was purified by flash chromatography (5% methanol in methylene chloride) to yield the desired

stirred for 15 hours, and additional carbamic acid

phenyl ester (13.3 mg, 0.0481 mmol) was added as well as

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urea (18 mg, 82%) as a white solid. MS (ESI), m^{+}/z : (M + H)⁺ = 503.5.

Example 283

5 Part A. Preparation of ethyl 4-hydroxybutyric acid ethyl ester

A solution of γ-butyrolactone (86.1g, 1 mole) in absolute ethanol (1.5 l) was treated with concentrated sulfuric acid (20.4g, 200 mmol) and stirred at room temperature for 18 h. The mixture was neutralized by slowly adding a solution of sodium metal (9.2g, 400 mmol) in ethanol (200 mL). The mixture was concentrated in vacuo, and the residue was filtered through celite. The filtrate was distilled through a packed column (0.08 Torr) to provide recovered lactone (bp 27°C, 14.47 g, 17%) and the product as a colorless liquid (bp 52°C, 41.48g, 31%).

1H NMR (300 mHz, CDCl3) δ 4.14 (q, J = 7.0 Hz, 2H), 3.69 (t, J = 6.0 Hz, 2H), 2.44 (t, J = 6.9 Hz, 2H), 1.89 (m, 3H), 1.27 (t, J = 7.0 Hz, 3H).

Part B. Preparation of 4-ethoxycarbonylmethoxybutyric acid ethyl ester

A solution of ethyl 4-hydroxybutyric acid ethyl ester (13.2 g, 100 mmol) and rhodium (II) acetate dimer (440 mg, 1 mmol) in dichloromethane (350 mL) was treated with a solution of ethyl diazoacetate (17.1 g, 150 mmol) in dichloromethane (70 mL) over 4 h. The mixture was stirred at room temperature for 20 h, and concentrated in vacuo. The residue was distilled on a Kugelrohr apparatus (80-90°C, 0.2 Torr) to provide the product as a colorless liquid, contaminated with about 10% by weight of a 1:1 mixture of diethyl maleate and diethyl fumarate (22.02 g, 91%).

1H NMR (300 mHz, CDCl3) δ 4.21 (q, J = 7.4 Hz, 2H), 4.13 (q, J = 7.0 Hz, 2H), 4.06 (s, 2H), 3.58 (t, J = 6.2 Hz, 2H), 2.44 (t, J = 7.3 Hz, 2H), 1.94 (m, 2H), 1.29 (t, J = 7.3 Hz, 3H), 1.26 (t, J = 7.0 Hz, 3H).

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Part C. Preparation of 3-oxo-tetrahydro-pyran-4-carboxylic acid ethyl ester

A solution of 4-ethoxycarbonylmethoxybutyric acid ethyl ester (90%, 15.0 g, 61.9 mmol) in toluene (300 mL)

10 was stirred at room temperature and treated over 5 min with a solution of potassium tert-butoxide in tetrahydrofuran (1.0 M, 74.2 mL, 74.2 mmol). The mixture was stirred at room temperature for 24 h, then was poured into 1 N hydrochloric acid. The phases were

15 separated, and the aqueous phase was extracted with ether. The combined organic phases were dried (Na2SO4), filtered and concentrated in vacuo. The residue was purified by flash column chromatography (5% ethyl acetate/hexanes) to provide the product as a pale yellow liquid (5.06 g, 48%).

1H NMR (300 mHz, CDCl3) δ 11.85 (s, 1H), 4.24 (q, J = 7.3 Hz, 2H), 4.14 (t, J = 1.7 Hz, 2H), 3.79 (t, J = 5.5 Hz, 2H), 2.35 (tt, J = 5.5, 1.7 Hz, 2H), 1.32 (t, J = 7.3 Hz, 3H).

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Part D. Preparation of (R)-5-(1-Phenyl-ethylamino)-3,6-dihydro-2H-pyran-4-carboxylic acid ethyl ester

A solution of 3-oxo-tetrahydro-pyran-4-carboxylic

acid ethyl ester (3.03 g, 17.6 mmol), $R-(+)-\alpha-$ methylbenzylamine (2.35 g, 19.4 mmol) and p-toluenesulfonic acid hydrate (67 mg, 230 μ mol) in benzene (60 mL) was heated at reflux under a Dean-Stark trap for 16 h. The cooled mixture was concentrated in

vacuo to provide the product as a yellow oily semisolid (5.05 g), used without further purification.

1H NMR (300 mHz, CDCl3) δ 8.97 (bd, J = 7.3 Hz, 1H), 7.3-7.2 (m, 5H), 4.41 (m, 1H), 4.30 (d, J = 16.1 Hz, 1H), 4.18 (q, J = 7.3 Hz, 2H), 3.91 (d, J = 16.1 Hz, 1H), 3.64 (m, 2H), 2.34 (m, 2H), 1.48 (d, J = 6.5 Hz, 3H), 1.30 (t, J = 7.3 Hz, 3H).

Part E. Preparation of (3S,4R)-3-[(R)-1-Phenyl-10 ethylamino]-tetrahydro-pyran-4-carboxylic acid ethyl ester

A solution of crude (R)-5-(1-Phenyl-ethylamino)3,6-dihydro-2H-pyran-4-carboxylic acid ethyl ester (4.53 g, ca. 16.5 mmol) was dissolved in trifluoroacetic acid
(45 mL) and treated with triethylsilane (7.9 mL, 49.4 mmol). The mixture was stirred for 17 h and then concentrated. The residue was dissolved in water and adjusted to pH 10 with 50% sodium hydroxide. The mixture was extracted with dichloromethane, and the combined organic phases were dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (40% diethyl ether/petroleum ether) to provide the product as a colorless oil (1.63 g, 36%).

1H NMR (300 mHz, CDCl3) δ 7.22 (m, 4H), 7.16 (m, 25 1H), 4.14 (q, J = 7.3 Hz, 2H), 3.77 (m, 2H), 3.60 (q, J = 7.3 Hz, 1H), 3.23 (m, 1H), 2.83 (m, 2H), 2.31 (m, 1H), 1.77 (m, 2H), 1.24 (m, 6H), ESI MS: (M+H)+ = 278.1 (100%).

30 Part F. Preparation of (3S,4R)-3-[(R)-1-Phenyl-ethylamino]-tetrahydro-pyran-4-carboxylic acid

A solution of (3S,4R)-3-[(R)-1-Phenyl-ethylamino]-tetrahydro-pyran-4-carboxylic acid ethyl ester (726 mg, 2.6 mmol) in tetrahydrofuran (6 mL) was treated with 1.0

M sodium hydroxide solution (5.2 mL, 5.2 mmol) and the

heterogeneous mixture was stirred at room temperature. After 16 h, the now homogeneous solution was treated with 1.0 M hydrochloric acid (5.2 mL, 5.2 mmol) and concentrated in vacuo. The residue was dissolved in water and lyophilized to provide the product, along with sodium chloride, as a fluffy white solid (943 mg, quantitative), used without further purification.

1H NMR (300 mHz, CDCl3) δ 7.41 (m, 5H), 4.09 (q, J = 6.6 Hz, 1H), 3.98 (dd, J = 11.7, 4.0 Hz, 1H), 3.77 (m, 1H), 3.33 (m, 1H), 3.08 (m, 2H), 2.37 (m, 1H), 2.19 (m, 1H), 1.79 (m, 1H), 1.61 (d, J = 6.6 Hz, 3H), ESI MS: (M+H)+ = 250.3 (100%).

Part G. Preparation of [(S)-3-(4-Fluoro-benzyl)
piperidin-1-yl]-[(3S,4R)-3-((R)-1-phenyl-ethylamino)
tetrahydro-pyran-4-yl]-methanone

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(S)-3-(4-fluorobenzyl)-piperidine, mandelic acid salt (1.16 g, 3.35 mmol) was dissolved in 1.0 M sodium hydroxide (30 mL) and extracted with ethyl acetate (4 x 10 mL). The combined organic phases were dried (Na2SO4) and concentrated in vacuo. The free base was used without further purification.

A cloudy solution of (3S,4R)-3-[(R)-1-Phenyl-ethylamino]-tetrahydro-pyran-4-carboxylic acid (containing sodium chloride; 943 mg, 2.57 mmol) in dichloromethane (25 mL) was treated with benzotriazol-1-yloxy-tripyrrolidinophosphonium hexafluorophosphate (1.61 g, 3.09 mmol) and triethylamine (826 μL, 5.92 mmol) and stirred for 5 minutes. A solution of the (S)-3-(4-fluorobenzyl)-piperidine prepared above in dichloromethane (5 mL) was added and the mixture was stirred at room temperature. After 18 h, the mixture was washed with water and saturated NaHCO3, dried (Na2SO4) and concentrated. The residue was purified by flash

column chromatography (75% ethyl acetate/hexanes) to provide the product as a gum (1.10 g, 100%).

1H NMR (300 mHz, CDCl3) δ 7.4-7.3 (m, 5H), 7.12 (m, 2H), 6.99 (t, 2H), 4.55 (bd, 1H), 3.87 (m, 2H), 3.70 (m, 2H), 3.4-2.8 (m, 3H), 2.66 (m, 2H), 2.42 (m, 2H), 2.0-1.1 (m, 9H), 1.34 (d, J = 6.6 Hz, 3H), ESI MS: (M+H)+ = 425.3.

Part H. Preparation of [(S)-3-(4-Fluoro-benzyl)
10 piperidin-1-yl]-[(3S,4R)-3-aminotetrahydro-pyran-4-yl]
methanone

[(S)-3-(4-Fluoro-benzyl)-piperidin-1-yl]-[(3S,4R)-3-((R)-1-phenyl-ethylamino)-tetrahydro-pyran-4-yl]methanone (1.10 g, 2.6 mmol), palladium hydroxide (20

15 weight % on carbon, dry basis; 440 mg) and ethanol (40 mL) were combined in a pressure bottle and shaken under a hydrogen atmosphere (55-60 psig) for 20 h. The mixture was filtered through Celite, and the solids were washed thoroughly with ethanol. The filtrate was concentrated

20 to give the product as a glassy foam (803 mg, 96%), used without further purification.

1H NMR (300 mHz, CD3OD) δ 7.22 (m, 2H), 7.04 (m, 2H), 4.50 and 4.30 (2m, 1H), 4.1-3.6 (3H), 3.5-3.4 (2H), 3.3-2.9 (2H), 2.8-2.4 (4H), 2.0-1.2 (7H), ESI MS: (M+H)+ = 321.2.

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Part I. Preparation of (3S,4S)-4-[(S)-3-(4-Fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-ylamine
[(S)-3-(4-Fluoro-benzyl)-piperidin-1-yl]-[(3S,4R)30 3-aminotetrahydro-pyran-4-yl]-methanone (367 mg, 1.14 mmol) was treated with borane-tetrahydrofuran complex in tetrahydrofuran (1.0 M; 46 mL, 46 mmol) and stirred for 20 h. The mixture was treated slowly with 20% acetic acid in methanol (25 mL), and the resulting mixture was stirred at room temperature for 3 h. The solvents were

removed, and the residue was dissolved in water, made basic (pH 11) with 50% sodium hydroxide, and extracted with dichloromethane. The combined organic phases were dried (Na2SO4) and concentrated to provide a gum (313 mg). A portion of this material (175 mg) was purified by flash column chromatography (5% methanol/dichloromethane, containing 0.5% ammonium hydroxide) to provide the product (103 mg, 52%) as an oil which solidified on standing.

Part J. Preparation of 1-{(3S,4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea, trifluoroacetate salt

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(3S,4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-ylamine (41 mg, 133 μmol) and [3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-carbamic acid phenyl ester (46 mg, 147 μmol) were dissolved in acetonitrile (1 mL) and the mixture was stirred at room temperature. After 24 h, the mixture was concentrated, dissolved in ethyl acetate, washed with water, dried (Na2SO4) and concentrated. The residue was purified by reverse phase high pressure liquid chromatography (C18, 10-100% acetonitrile in water, containing 0.05% trifluoroacetic acid). After isolation, the product was lyophilized to provide a fluffy white solid (32 mg, 38%).

1H NMR (300 mHz, CD3OD) δ 7.79 (s, 1H), 7.39 (s, 1H), 7.25 (s, 1H), 7.19 (m, 2H), 7.00 (m, 2H), 4.18 (s, 3H), 3.90 (m, 2H), 3.6 (m, 3H), 3.5 (m, 1H), 3.2 (m, 1H), 2.94 (bt, 1H), 2.7 (m, 2H), 2.6 (m, 1H), 2.41 (s, 3H), 2.2-1.6 (8H), 1.5 (m, 1H), 1.2 (m, 1H), ESI MS: (M+H) + = 522.4.

Example 284

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-10 piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea

(3S,4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-

ylmethyl]-tetrahydro-pyran-3-ylamine (44 mg, 143 µmol) and [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-carbamic acid

- phenyl ester (47 mg, 158 μmol) were dissolved in acetonitrile (1 mL) and the mixture was stirred at room temperature. After 24 h, the mixture was concentrated, dissolved in ethyl acetate, washed with water, dried (Na2SO4) and concentrated. The residue was purified by
- reverse phase high pressure liquid chromatography (C18, 10-100% acetonitrile in water, containing 0.05% trifluoroacetic acid), then by flash column chromatography (5% methanol in dichloromethane, containing 0.5% ammonium hydroxide) to provide the product as a glass (16 mg, 23%).

1H NMR (300 mHz, CD30D) & 7.95 (s, 1H), 7.52 (m, 2H), 7.43 (m, 1H), 7.05 (m, 2H), 6.86 (m, 2H), 4.19 (s, 3H), 3.94 (dd, J = 10.7, 4.4 Hz, 1H), 3.87 (bd, 1H), 3.50 (td, J = 9.9, 4.4 Hz, 1H), 3.39 (m, 1H), 3.09 (t, J = 10.2 Hz, 1H), 2.93 (bd, 1H), 2.85 (bd, 1H), 2.56 (dd, J = 12.8, 5.2 Hz, 1H), 2.45 (m, 2H), 2.30 (dd, J = 12.4, 6.6 Hz, 1H), 2.04 (bt, 1H), 1.9-1.5 (7H), 1.40 (m, 1H), 0.95 (m, 1H), ESI MS: (M+H)+ = 508.3 (100%).

Example 285

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[5-acetyl-4-methylthiazol-2-yl]-urea

5 (3S, 4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1ylmethyl]-tetrahydro-pyran-3-ylamine (49 mg, 160 µmol) and (5-acetyl-4-methylthiazol-2-yl)-carbamic acid phenyl ester (49 mg, 176 µmol) were dissolved in acetonitrile (1 mL) and the mixture was stirred at room temperature. 10 After 24 h, the mixture was concentrated, dissolved in ethyl acetate, washed with water, dried (Na2SO4) and concentrated. The residue was purified by reverse phase high pressure liquid chromatography (C18, 10-100% acetonitrile in water, containing 0.05% trifluoroacetic 15 acid), then by flash column chromatography (5% methanol in dichloromethane, containing 0.5% ammonium hydroxide) to provide the product as a glass (18 mg, 23%).

1H NMR (300 mHz, CD3OD) & 7.05 (m, 2H), 6.87 (m, 2H), 3.90 (dd, J = 11.0, 4.4 Hz, 1H), 3.84 (m, 1H), 3.53 (td, J = 9.5, 4.3 Hz, 1H), 3.40 (bt, 1H), 3.10 (m, 1H), 2.90 (bd, 1H), 2.75 (bd, 1H), 2.58 (s, 3H), 2.48 (s, 3H), 2.45 (m, 3H), 2.21 (dd, J = 13.6, 6.3 Hz, 1H), 1.91 (bt, 1H), 1.8-1.5 (7H), 1.37 (m, 1H), 0.92 (m, 1H), ESI MS: (M+H)+ = 489.4 (100%).

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Example 286

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-(3-acetylphenyl)-urea trifluoroacetate salt

(3S,4S)-4-[(S)-3-(4-Fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-ylamine (45 mg, 146 μ mol), 3-acetylphenyl isocyanate (20 μ L, 146 μ mol) and triethylamine (21 μ L, 146 μ mol) were dissolved in tetrahydrofuran (1 mL) and the mixture was stirred at

room temperature. After 22.5 h, the mixture was concentrated. The residue was purified by flash column chromatography (5% methanol in dichloromethane, containing 0.5% ammonium hydroxide), then by reverse phase high pressure liquid chromatography (C18, 10-100% acetonitrile in water, containing 0.05% trifluoroacetic acid) to provide the product as a glass. After lyophilizing the product was a fluffy white powder (42 mg, 49%).

Example 287

of Preparation $1-\{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-4-[(S$ 20 piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-(2morpholin-4-yl-ethyl)-urea bis-trifluoroacetate salt (3S, 4S) - 4 - [(S) - 3 - (4 - Fluor obenzyl) - piperidin - 1 ylmethyl]-tetrahydro-pyran-3-ylamine (44 mg, 144 μmol), (2-morpholin-4-yl-ethyl)-carbamic acid 4-nitro-phenyl 25 ester hydrochloride (58 mg, 173 µmol) and triethylamine (24 μ L, 173 μ mol) were dissolved in N,Ndimethylformamide (1 mL) and the mixture was stirred at room temperature. After 22.5 h, the mixture was concentrated. The residue was dissolved in ethyl 30 acetate, washed with 1N sodium hydroxide, water, and brine, and dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (5% methanol in dichloromethane, containing 0.5% ammonium hydroxide), then by reverse phase high pressure liquid

chromatography (C18, 10-100% acetonitrile in water, containing 0.05% trifluoroacetic acid) to provide the product as a glass. After lyophilizing the product was a glass (63 mg, 63%).

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Example 288

Part A. Preparation of (R)-4-(1-phenyl-ethylamino)-2,5-dihydrothiophene-3-carboxylic acid methyl ester

A solution of 4-oxo-tetrahydrothiophene-3carboxylic acid methyl ester (prepared according to the procedure of O. Hromatka, D. Binder and K. Eichinger, Monatsheft. Chem. 1973, 104, 1520; 3.20 g, 20 mmol), R-(+)-α-methylbenzylamine (2.85 mL, 22 mmol), acetic acid (2.85 mL, 50 mmol) and benzene (100 mL) was heated at reflux under a Dean-Stark trap for 4.5 h. The cooled mixture was concentrated in vacuo to provide the product as a viscous yellowish oil (6.2 g) which contained residual acetic acid. The material, which solidified on standing, was used without further purification.

30 Part B. Preparation of (3R,4S)-4-[(R)-1-phenyl-ethylamino]-tetrahydrothiophene-3-carboxylic acid methyl ester

A solution of crude (R)-4-(1-Phenyl-ethylamino)-2,5-dihydrothiophene-3-carboxylic acid methyl ester 35 (2.82 g, ca. 9.1 mmol) was dissolved in trifluoroacetic

acid (50 mL) and treated with triethylsilane (4.4 mL, 27.4 mmol). The mixture was stirred for 20 h, when TLC indicated residual starting material. Additional triethylsilane (1.5 mL) was added and the mixture was heated at reflux for 3 h, then was cooled and concentrated. The residue was dissolved in water and adjusted to pH 10 with 50% sodium hydroxide. The mixture was extracted with ether, and the combined organic phases were dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (15-30% diethyl ether/petroleum ether) to provide the product as a colorless oil (673 mg, 28%).

1H NMR (300 mHz, CDCl3) δ 7.33 (m, 4H), 7.27 (m, 1H), 3.84 (q, J = 6.6 Hz, 1H), 3.73 (s, 3H), 3.61 (m, 1H), 3.1-3.0 (m, 3H), 2.80 (dd, J = 11.0, 5.8 Hz, 1H), 2.54 (dd, J = 11.0, 6.6 Hz, 1H), 1.37 (d, J = 6.6 Hz, 3H), ESI MS: (M+H)+ = 266.1.

C. Preparation of (3R, 4S) - 4 - [(R) - 1 - phenyl -20 ethylamino]-tetrahydrothiophene-3-carboxylic acid A solution of Preparation of (3R,4S)-4-[(R)-1phenyl-ethylamino]-tetrahydrothiophene-3-carboxylic acid methyl ester (673 mg, 2.54 mmol) in tetrahydrofuran (5 mL) was treated with 1.0 M sodium hydroxide solution 25 (5.0 mL, 5.0 mmol) and the heterogeneous mixture was stirred at room temperature. After 75 min, the now homogeneous solution was treated with 1.0 M hydrochloric acid (5.0 mL, 5.0 mmol) and concentrated in vacuo. The residue was dissolved in water and lyophilized to 30 provide the product, along with sodium chloride, as a fluffy white solid (928 mg, quantitative), used without further purification.

1H NMR (300 mHz, DMSO-d6) δ 7.4-7.2 (m, 5H), 3.87 (q, J = 6.6 Hz, 1H), 3.27 (dd, J = 13.6, 7.0 Hz, 1H),

3.0-2.8 (m, 3H), 2.5 (m, 2H), 1.26 (d, J=6.6, 3H), ESI MS: (M+H)+ = 252.0.

- Part D. Preparation of [(S)-3-(4-fluorobenzyl)piperidin-1-yl]-[(3R,4S)-4-((R)-1-phenyl-ethylamino)tetrahydrothiophen-3-yl]-methanone
- (S)-3-(4-fluorobenzyl)-piperidine, mandelic acid
 salt (1.14 g, 3.30 mmol) was stirred in ethyl acetate
 (20 mL) and 1.0 M sodium hydroxide (25 mL) until the
 solid dissolved. The layers were separated and the
 organic phase was extracted with ethyl acetate (2 x 25
 mL). The combined organic phases were dried (Na2SO4) and
 concentrated in vacuo. The free base was used without
 further purification.
- A cloudy solution of (3R,4S)-4-[(R)-1-phenyl-ethylamino]-tetrahydrothiophene-3-carboxylic acid (containing sodium chloride; 928 mg, 2.54 mmol) in dichloromethane (20 mL) was treated with benzotriazol-1-yloxy-tripyrrolidinophosphonium hexafluorophosphate
- 20 (1.59 g, 3.05 mmol) and triethylamine (814 μ L, 5.84 mmol) and stirred for 5 minutes. A solution of the (S)-3-(4-fluorobenzyl)-piperidine prepared above in dichloromethane (5 mL) was added and the mixture was stirred at room temperature. After 21.5 h, the mixture
- was diluted with dichloromethane, washed with water and saturated NaHCO3, dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (55% ethyl acetate/hexanes) to provide the product as a gum (1.05 g, 94%).

Part E. Preparation of [1,1-dioxo-(3R,4S)-4-[(R)-1-phenyl-ethylamino]-tetrahydrothiophen-3-yl]-[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-methanone

[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-[(3R,4S)-4-5 [(R)-1-phenyl-ethylamino]-tetrahydro-thiophen-3-yl]methanone (1.02 g, 2.39 mmol) was dissolved in methanol (10 mL) and acetone (10 mL) and stirred on ice. Water (10 mL) was added, and the resulting heterogeneous mixture was treated with potassium peroxymonosulfate (Oxone®, 3.67 g, 5.98 mmol). After 5 min the cooling 10 bath was removed and the mixture was stirred at room temperature. After 20.5 h, the mixture was concentrated and diluted with water. The pH was adjusted to ca. 11 with 1N sodium hydroxide, and the mixture was extracted with ethyl acetate. The combined extracts were dried 15 (Na2SO4) and concentrated, and the residue was purified by flash column chromatography (2.5% 2propanol/chloroform) to provide the product as a glass (790 mg, 72%).

- Part F. Preparation of [(3R,4S)-4-amino-1,1-dioxo-tetrahydrothiophen-3-yl]-[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-methanone
 - $[1,1-\text{Dioxo-}(3R,4S)-4-[(R)-1-\text{phenyl-ethylamino}]-\\ \text{tetrahydrothiophen-3-yl}]-[(S)-3-(4-\text{fluoro-benzyl})-\\$
- piperidin-1-yl]-methanone (790 mg, 1.72 mmol), palladium hydroxide (20 weight % on carbon, dry basis; 1.1 g) and methanol (50 mL) were combined in a pressure bottle and shaken under a hydrogen atmosphere (55-60 psig) for 20.5 h. The mixture was filtered through Celite, and the
- 35 solids were washed thoroughly with methanol. The

filtrate was concentrated to give the product as a solid (660 mg, quantitative), used without further purification.

1H NMR (300 mHz, CD3OD) δ 7.20 (m, 2H), 7.00 (m, 2H), 4.45 and 4.32 (2m, 1H), 4.09 (m, 1H), 3.90 and 3.79 (2m, 1H), 3.7-3.4 (m, 2H), 3.13 (m, 2H), 2.87 and 2.69 (2m, 1H), 2.56 (m, 2H), 1.79 (m, 3H), 1.28 (m, 3H), 0.88 (m, 1H), ESI MS: (M+H)+ = 355.2.

- 10 Part G. Preparation of (3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxotetrahydro-thiophen-3-ylamine
 - [(3R,4S)-4-Amino-1,1-dioxo-tetrahydrothiophen-3-yl]-[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-methanone
- 15 (560 mg, 1.46 mmol) was treated with boranetetrahydrofuran complex in tetrahydrofuran (1.0 M; 58 mL, 58 mmol) and stirred for 16.5 h. The mixture was treated slowly with 20% acetic acid in methanol (38 mL), and the resulting mixture was stirred at room
- temperature for 5.5 h. The solvents were removed, and the residue was dissolved in water, made basic (pH 11) with 50% sodium hydroxide, and extracted with dichloromethane. The combined organic phases were dried (Na2SO4) and concentrated to provide a gum. This was
- purified by flash column chromatography (4% methanol/dichloromethane, containing 0.4% ammonium hydroxide) to provide the product (304 mg, 61%) as a white solid.

1H NMR (300 mHz, CD30D) δ 7.13 (m, 2H), 6.96 (m, 30 2H), 3.36 (m, 3H), 2.87 (m, 3H), 2.78 (m, 1H), 2.56 (m, 1H), 2.49 (m, 2H), 2.40 (m, 2H), 1.95 (m, 1H), 1.8-1.6 (m, 4H), 1.50 (m, 1H), 0.95 (m, 1H), ESI MS: (M+H)+= 341.2.

Part H. Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydro-thiophen-3-yl}-3-[5-acetyl-4-methylthiazol-2-yl]-urea, trifluoroacetate salt

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(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-ylamine (39 mg, 115 μmol) and [5-acetyl-4-methylthiazol-2-yl]-carbamic acid phenyl ester (35 mg, 126 μmol) were dissolved in N,N-dimethylformamide (0.8 mL) and treated with triethylamine (16 μL, 115 μmol). The mixture was stirred at room temperature for 19 h, and then concentrated. The residue was purified by flash column chromatography (3% methanol/dichloromethane containing 0.3% aqueous ammonium hydroxide). After isolation, the product was treated with trifluoroacetic acid (1 drop), dissolved in

1H NMR (300 mHz, CD3OD) δ 7.23 (m, 2H), 7.04 (m, 2H), 4.48 (bm, 1H), 3.62 (m, 4H), 3.45 (m, 1H), 3.3 (m, 2H), 3.1 (m, 2H), 2.85 (m, 2H), 2.6 (m, 2H), 2.58 (s, 3H), 2.47 (s, 3H0, 2.20 (m, 1H), 1.9 (m, 3H), 1.25 (m, 1H), ESI MS: (M+H)+ = 523.3.

water/acetonitrile and lyophilized to provide a fluffy

white solid (50 mg, 68%).

Example 289

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea, trifluoroacetate salt

(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-130 ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-ylamine (41 mg,
120 μmol) and [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]carbamic acid phenyl ester (39 mg, 131 μmol) were
dissolved in N,N-dimethylformamide (1 mL) and treated
with triethylamine (19 μL, 131 μmol). The mixture was

stirred at room temperature for 66 h, and then concentrated. The residue was purified by flash column chromatography (3% methanol/dichloromethane containing 0.3% aqueous ammonium hydroxide). After isolation, the product was treated with trifluoroacetic acid (1 drop), dissolved in water/acetonitrile and lyophilized to provide a fluffy white solid (70 mg, 89%).

1H NMR (300 mHz, CD3OD) δ 7.95 (t, J= 1.4 Hz, 1H), 7.6-7.4 (3H), 7.10 (m, 2H), 6.95 (m, 2H), 4.33 (q, J = 10 7.7 Hz, 1H), 4.19 (s, 3H), 3.56 (dd, J = 13.6, 7.7 Hz, 1H), 3.38 (dd, J = 13.5, 8.4 Hz, 1H), 3.05 (m, 2H), 2.79 (m, 2H), 2.7-2.4 (5H), 2.05 (m, 1H), 1.9-1.5 (5H), 0.97 (m, 1H), ESI MS: (M+H)+ = 542.5.

15 Example 290

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[3-acetylphenyl]-urea, trifluoroacetate salt (3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-

- ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-ylamine (41 mg, 120 μmol) and 3-acetylphenyl isocyanate (16.5 μL, 120 μmol) were dissolved in N,N-dimethylformamide (1 mL) and treated with triethylamine (17 μL, 120 μmol). The mixture was stirred at room temperature for 66 h, and then concentrated. The residue was purified by flash column chromatography (3% methanol/dichloromethane containing 0.3% aqueous ammonium hydroxide). After isolation, the product was treated with trifluoroacetic
- 30 lyophilized to provide a fluffy white solid (71 mg, 95%).

acid (1 drop), dissolved in water/acetonitrile and

1H NMR (300 mHz, CD3OD) δ 8.01 (s, 1H), 7.61 (m, 2H), 7.40 (t, J = 8.0 Hz, 1H), 7.09 (m, 2H), 6.92 (m, 2H), 4.32 (q, J = 8.0 Hz, 1H), 3.56 (dd, J = 9.4, 8.1

Hz, 1H), 3.38 (dd, J = 13.6, 7.4 Hz, 1H), 3.03 (m, 2H), 2.79 (m, 2H), 2.7-2.4 (5H), 2.57 (s, 3H), 2.04 (m, 1H), 1.8-1.4 (5H), 0.94 (m, 1H), ESI MS: (M+H)+ = 502.5.

5 Example 291

Preparation of 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea, bis-hydrochloride salt

10 (3S, 4S) - 4 - [(S) - 3 - (4 - fluorobenzyl) - piperidin - 1 ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-ylamine (47 mg, 137 µmol) and (2-morpholin-4-yl-ethyl)-carbamic acid 4nitro-phenyl ester hydrochloride (55 mg, 164 μmol) were dissolved in N,N-dimethylformamide (1 mL) and treated with triethylamine (23 μ L, 164 μ mol). The mixture was 15 stirred at room temperature for 67 h, and then concentrated. The residue was purified by flash column chromatography (3% methanol/dichloromethane containing 0.3% aqueous ammonium hydroxide). After isolation, the 20 product was dissolved in 1N hydrochloric acid and water and lyophilized to provide a fluffy white solid (70 mg, 90%).

1H NMR (300 mHz, CD3OD) δ 7.15 (m, 2H), 6.98 (m, 2H), 4.21 (q, J = 8.1 Hz, 1H), 3.68 (m, 4H), 3.49 (dd, J = 13.6, 8.1 Hz, 1H), 3.35 (m, 1H), 3.25 (t, J = 6.6 Hz, 2H), 2.98 (m, 2H), 2.78 (m, 2H), 2.6-2.4 (11H), 2.07 (m, 1H), 1.9-1.5 (5H), 0.98 (m, 1H), ESI MS: (M+H)+ = 497.1.

Example 292

30 Preparation of 1-(5-acetyl-4-methyl-thiazol-2-yl)-3{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1carbonyl]-1,1-dioxo-tetrahydro-1λ6-thiophen-3-yl}-urea
[(3R,4S)-4-Amino-1,1-dioxo-tetrahydrothiophen-3yl]-[(S)-3-(4-fluorobenzyl)-piperidin-1-yl]-methanone

(50 mg, 141 μmol) and [5-acetyl-4-methylthiazol-2-yl]-carbamic acid phenyl ester (43 mg, 155 μmol) were dissolved in N,N-dimethylformamide (1 mL) and treated with triethylamine (22 μL, 155 μmol). The mixture was stirred at room temperature for 94 h, and then concentrated. The residue was purified by flash column chromatography (4% methanol/dichloromethane containing 0.4% aqueous ammonium hydroxide) to provide a white solid (41 mg, 55%).

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Example 293

Preparation of 1-{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea, trifluoroacetate salt

[(3R,4S)-4-amino-1,1-dioxo-tetrahydrothiophen-3-y1]-[(S)-3-(4-fluorobenzyl)-piperidin-1-y1]-methanone
(48 mg, 135 μmol) and (2-morpholin-4-y1-ethyl)-carbamic acid 4-nitro-phenyl ester hydrochloride (54 mg, 162

μmol) were dissolved in N,N-dimethylformamide (1 mL) and treated with triethylamine (75 μL, 540 μmol). The mixture was stirred at room temperature for 15 h, and then concentrated. The residue was purified by flash column chromatography (4% methanol/dichloromethane
containing 0.4% aqueous ammonium hydroxide), then by reverse-phase preparative HPLC (C₁₈, 10-90% acetonitrile/water containing 0.05% trifluoroacetic acid, 35 min, 35 mL/in). After isolation, the product

was dissolved in water and lyophilized to provide a fluffy white solid (35 mg, 41%).

1H NMR (300 mHz, CD3OD) δ 7.24 (m, 2H), 7.00 (m, 2H), 4.70 (m, 1H), 4.42 + 4.32 (2m, 1H), 4.1-3.4 (12H), 3.3-3.0 (7H), 2.85 + 2.66 (2m, 1H), 2.57 (m, 2H), 1.9-1.6 (m, 3H), 1.5-1.2 (m, 2H), ESI MS: (M+H)+ = 511.4.

Example 294

Part A. Preparation of (3R, 4S)-4-[(R)-1-phenyl-10 ethylamino]-pyrrolidine-1,3-dicarboxylic acid 1-tertbutyl ester.

A solution of (3R,4S)-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1,3-dicarboxylic acid 1-tert-butyl ester 3-ethyl ester (prepared according to the procedure of X.

- Wang, J. F. Espinosa and S. H. Gellman, J. Am. Chem. Soc. 2000, 122, 4821; 107 mg, 295 μmol) in tetrahydrofuran (2 mL) was treated with 1.0 M sodium hydroxide solution (600 μL, 600 μmol) and the heterogenous mixture was stirred at room temperature.
- 20 After 18 h, the now homogenous solution was treated with 1.0 M hydrochloric acid (600 μ L, 600 μ mol) and concentrated in vacuo. The residue was dissolved in water and lyophilized to provide the product, along with sodium chloride, as a white solid (115mg, quantitative), used without further purification.

1H NMR (300 mHz, CD30D) δ 7.48 (m, 5H), 4.44 (m, 1H), 3.89 (m, 1H), 3.78 (m, 1H), 3.44-3.14 (3H), 1.67 (d, 3H), 1.4 (bs, 9H); mass spec. (ES+) m/z 335.3.

30 Part B. Preparation of (3R,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1-carboxylic acid tert-butyl ester.

(S)-3-(4-flourobenzyl)-piperdine, mandelic acid salt (100mg, 290 μ mol) was dissolved in 1.0 M sodium hydroxide (4mL) and extracted with ethyl acetate (4 x 5mL). The combined organic phases were dried (Na2SO4) and concentrated in vacuo. The free base was used without further purification.

A cloudy solution of (3R, 4S)-4-[(R)-1-phenylethylamino]-pyrrolidine-1,3-dicarboxylic acid 1-tertbutyl ester (80mg, 240 µmol) in methylene chloride (5mL) 10 was treated with benzotriazol-1-vloxytripyrrolidinophosphonium hexafluorophosphate (151mg, 290 μmol) and triethylamine (77μL, 550 μmol) and stirred for 5 minutes. A solution of the (S)-3-(4flourobenzyl)-piperdine prepared above in methylene 15 chloride (5 mL) was added and the mixture was stirred at room temperature. After 18 h, the mixture was washed with water and saturated NaHCO3, dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (50% ethyl acetate/hexanes) to provide the product as a gum (100 mg, 82%). 20

1H NMR (300 mHz, CD30D) δ 7.32-6.95 (7H), 4.42-4.30 (1H), 3.90-2.48 (14H), 1.80-1.62 (3H), 1.40 (bs, 9H), 1.29 (d, 3H); mass spec. (ES+) m/z 510.4.

Part C. Preparation of (3S,4R)-3-amino-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-pyrrolidine-1-carboxylic acid tert-butyl ester.

30

(3R,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1-carboxylic acid tert-butyl ester (99 mg, 195 μmol), palladium hydroxide (20 weight % on carbon, dry basis; 40 mg) and ethanol (7 mL) were combined in a pressure bottle and shaken under hydrogen atmosphere (50-55 psig) for 20 h. The mixture was filtered through Celite, and

the solids were rinsed with ethanol. The filtrate was concentrated to give the product as a glassy foam (75 mg, 95%), used without further purification.

1H NMR (300mHz, CDCl3) δ 7.26 (m, 2H), 6.96 (m, 5 2H), 4.57-4.36 (1H), 3.84-2.41 (10H), 1.93-1.70 (6H), 1.44-1.39 (9H); mass spec. (ES+) m/z 406.4.

Part D. Preparation of (3S,4S)-3-amino-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-pyrrolidine-1-carboxylic acid tert-butyl ester.

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 $(3S,4R)-3-Amino-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-pyrrolidine-1-carboxylic acid tert-butyl ester (75 mg, 185 μmol) was treated with borane-tetrahydrofuran complex in tetrahydrofuran (1.0)$

- M; 7.4 mL, 7.4 mmol) and stirred for 20 h. The mixture was treated slowly with 20% acetic acid in methanol (10 mL), and the resulting mixture was stirred at room temperature for 1 h. The solvents were removed, and the residue was dissolved in water, made basic (pH 11) with
- 50% sodium hydroxide, and extracted with methylene chloride. The combined organic phases were dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (5%

methanol/dichloromethane) to provide the product (30 mg, 25 40%).

1H NMR (300 mHz, CD3OD) δ 7.20 (m, 2H), 6.98 (m, 2H), 3.18-2.42 (15H), 1.80-1.50 (4H), 1.41 (s, 9H); mass spec. (ES+) m/z 392.4.

Part E. Preparation of (3S,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-ureido}-pyrrolidine-1-carboxylic acid tert-butyl ester, trifluoroacetate salt.

(3S, 4S) - 3 - amino - 4 - [(S) - 3 - (4 - fluorobenzyl) - (4 - fluorobenzyl) - (4 - fluorobenzyl) - (4 - fluorobenzyl)

35 piperidin-1-ylmethyl]-pyrrolidine-1-carboxylic acid

tert-butyl ester (21 mg, 54 µmol) and [3-methyl-5-(1-methyl-1H-tetrazol-5yl)-phenyl]-carbamic acid phenyl ester (20 mg, 65 µmol) were dissolved in acetonitrile (1 mL) and the mixture was stirred at room temperature. After 24 h, the mixture was concentrated and purified by flash chromatography (5% methanol/dichloromethane containing 0.5% ammonium hydroxide). After isolation, the product was dissolved in water with a small amount of trifluoroacetic acid and the solution was lyophilized to provide a white solid (10 mg, 31%).

1H NMR (300mHz, CD3OD) δ 7.79 (s, 1H), 7.39 (s, 1H), 7.21 (s, 1H), 7.15-6.94 (4H), 4.19 (s, 3H), 4.02 (m, 1H), 3.76-3.6 (3H), 3.21-2.82 (7H), 2.50 (m, 2H), 2.41 (s, 3H), 2.36 (m, 1H), 1.80-1.60 (5H), 1.45 (s, 9H); mass spec. (ES+) m/z 607.4.

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Example 295

Preparation of 1-(5-acetyl-4-methylthiazol-2-yl)-3-((3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-

20 ylmethyl]-pyrrolidin-3-yl}-urea, bis-trifluoroacetate
salt

Part A. Preparation of (3S,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1-carboxylic acid tert-butyl ester

(3R,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1-carboxylic acid tert-butyl ester (150 mg, 294 μmol)) was treated with borane-tetrahydrofuran complex in tetrahydrofuran (1.0 M; 11.64 mL, 11.64mmol) and stirred for 20 h. The mixture was treated slowly with 20% acetic acid in methanol (20 mL), and the resulting mixture was stirred at room temperature for 36 h. The solvents were removed, and the residue was dissolved in

water, made basic (pH 11) with 50% sodium hydroxide, and extracted with dichloromethane. The combined organic phases were dried (Na2SO4) and concentrated. The residue was purified by flash column chromatography (60% ethyl acetate/hexane) to provide the product (100 mg, 68%).

1H NMR (300 mHz, CD3OD) δ 7.31-7.00 (9H), 3.78 (m, 1H), 3.42 (m, 1H), 3.22-1.62 (18H), 1.39 (d, 3H), 1.34 (s, 9H); mass spec. (ES+) m/z 496.5.

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Part B. Preparation of (3S,4S)-3-amino-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-pyrrolidine-1-carboxylic acid tert-butyl ester

(3S, 4S)-3-[(S)-3-(4-Fluorobenzyl)-piperidin-1ylmethyl]-4-[(R)-1-phenyl-ethylamino]-pyrrolidine-1carboxylic acid tert-butyl ester (100 mg, 0.201 mmol),
palladium hydroxide (20 weight % on carbon, dry basis; 4
0 mg) and methanol (7 mL) were combined in a pressure
bottle and shaken under hydrogen atmosphere (50-55 psig)
for 20 h. The mixture was filtered through Celite, and
the solids were rinsed with ethanol. The filtrate was
concentrated to give the product as a glassy foam (75
mg, 95%), used without further purification.

1H NMR (300 mHz, CD3OD) δ 7.20 (m, 2H), 6.98 (m, 25 2H), 3.18-2.42 (15H), 1.80-1.50 (4H), 1.41 (s, 9H); mass spec. (ES+) m/z 392.4.

Part C. Preparation of 1-(5-acetyl-4-methylthiazol-2-yl)-3-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-pyrrolidin-3-yl}-urea, bis-trifluoroacetate salt

(3S,4S)-3-Amino-4-[(S)-3-(4-fluorobenzyl)piperidin-1-ylmethyl]-pyrrolidine-1-carboxylic acid
tert-butyl ester (21 mg, 0.054 mmol) and [5-acetyl-4methylthiazol-2-yl]-carbamic acid phenyl ester (18 mg,

0.065 mmol) were dissolved in DMF (1 mL) and treated with triethylamine (9µL, 0.065 mmol) and the mixture was stirred at room temperature. After 24 h, the mixture was concentrated and purified by flash column chromatography (5% methanol/dichloromethane containing 0.5% ammonium hydroxide). After isolation, the product was stirred in trifluoroacetic acid for 4 h. The mixture was oncentrated and the residue dissolved in water and lyophilized to provide a white solid (10 mg, 31%).

15 The compounds shown below were made using the procedures described above.

Table 1.

5

Ex	Core	Y	R	MS
Ex #				m/z
1.	a	NBoc	3-Ac-Ph	·581
2	a	NH	3-Ac-Ph	481
3	a	NBoc	3-(1-Me-5- tetrazole)-Ph	621
4	a	NH	3-(1-Me-5- tetrazole)-Ph	521
5	a	NCOtBu	3-(1-Me-5- tetrazole)-Ph	605
6	a	NAc	3-(1-Me-5-	563

	Γ		1 + 7 - 1 - 2	
7	 	NGO Ma	tetrazole)-Ph	F00
'	a	NSO ₂ Me	3-(1-Me-5-	599
8		NTM-	tetrazole)-Ph	+
٥	a	NMe	3-(1-Me-5-	535
	 	NTD = -	tetrazole)-Ph	+ 655
9	a	NBoc	1-Boc-5-	679
10			indazole	+ .==
10	a	NH	5-indazole	479
11	a	NBoc	5-Ac-4-Me-2-	602
10	<u> </u>	7777	thiazole	
12	a a	NH	5-Ac-4-Me-2-	502
13			thiazole	+ 501
$\frac{13}{14}$	C	NBoc	3-Ac-Ph	581
15	C	NH	3-Ac-Ph	481
	b	NBoc	3-Ac-Ph	567
16	b	NH	3-Ac-Ph	467
17	b	NAC NGO MG	3-Ac-Ph	509
18	b	NSO,Me	3-Ac-Ph	545
19	b	NMe NMe	3-Ac-Ph	481
20 21	b	NiBu	3-Ac-Ph	523
4 T	b	NBoc	3-(1-Me-5-	607
22	b	NIII	tetrazole)-Ph	505
44	D D	NH	3-(1-Me-5-	507
23	b	NDog	tetrazole)-Ph	CCE
23	D	NBoc	1-Boc-5-	665
24	b	NH	indazole 5-indazole	485
25	b	NBoc	5-Ac-4-Me-2-	588
23	£	NBGC	thiazole	300
26	b	NH	5-Ac-4-Me-2-	488
	~		thiazole	1 =00
27	đ	NBoc	3-Ac-Ph	567
28	d	NH	3-Ac-Ph	467
29	g	NBoc	3-Ac-Ph	581
30	g	NH	3-Ac-Ph	481
31	b	NCO,Me	3-Ac-Ph	525
32	b	NCOtBu	3-Ac-Ph	551
33	С	NBoc	3-(1-Me-5-	621
l			tetrazole)-Ph]
34	b	NCH,CH,F	3-Ac-Ph	513
35	b	NCH,COMe	3-Ac-Ph	523
36	đ	NMe	3-Ac-Ph	481
37	d	NAc	3-Ac-Ph	509
38	b	NAc	3-(1-Me-5-	549
		1	tetrazole)-Ph	
39	b	NMe	3-(1-Me-5-	521
ŀ			tetrazole)-Ph	
40	b	NSO,Me	3-(1-Me-5-	584
		-2	tetrazole)-Ph	
41	a	NCH,COMe	3-(1-Me-5-	577
1		2	tetrazole)-Ph	-
		·		L

	,		., <u></u>	
42	a	NCH ₂ CH ₂ F	3-(1-Me-5-	567
43		NGO GT	tetrazole)-Ph	L
43	a	NSO ₂ CF ₃	3-(1-Me-5- tetrazole)-Ph	653
44	f			460
45	f	0	3-Ac-Ph	468
45	1 -	0	3-(1-Me-5-	508
46	f		tetrazole)-Ph	100
40	ļ ^I	0	5-Ac-4-Me-2-	489
47			thiazole	400
48	е	0	3-Ac-Ph 3-(1-Me-5-	482
48	е	0		522
40			tetrazole)-Ph	F02
49	e e	0	5-Ac-4-Me-2-	503
	1	7775	thiazole	
50	b	NMe	5-Ac-4-Me-2-	502
	7-	272	thiazole	F22
51	b	NAC	5-Ac-4-Me-2-	530
	1	17001	thiazole	
52	b	NCOi-Pr	5-Ac-4-Me-2-	558
<u> </u>	1_	NGO W-	thiazole	FCC
53	b	NSO₂Me	5-Ac-4-Me-2-	566
E 4	2-	NOTIO	thiazole	F24
54	b	NCH2CH2F	5-Ac-4-Me-2-	534
55	b	NOTICOMA	thiazole	C 4 4
22	a	NCH2COMe	5-Ac-4-Me-2- thiazole	544
56	b			468
57	b	0	3-Ac-Ph 3-(1-Me-5-	508
57	L D	tetrazole)-Ph		508
58	b	0	5-Ac-4-Me-2-	467
50			thiazole	407
59	a	0	3-Ac-Ph	482
60	a	0	3-(1-Me-5-	522
00	a	1	tetrazole)-Ph	322
61	a	0	5-Ac-4-Me-2-	503
01	a		thiazole	303
62	b	NH	4-F-Ph	443
63	<u>b</u>	NBoc	4-F-Ph	543
64	<u>b</u>	NAC	4-F-Ph	485
65		NMe	4-F-Ph	457
66	b b	NHE	4-F-Ph	471
67	<u>b</u>	NCH2[1,2,4]oxadiaz	4-F-Ph	525
٥, ا	D		4-6-511	525
68	b	NCH2CONHiPr	ol-3-yl	
69	b		4-F-Ph 4-F-Ph	542 481
		NCH2C≡CH_		
70	b	N-piperidin-4-yl	3-Ac-Ph	550
71	b	N-1-Ac-piperidin- 4-yl	3-Ac-Ph	592
72	b	N-1-Me-piperidin- 4-yl	3-Ac-Ph	564
73	b	NH	3,5-diAc-Ph	509
			0,0 02110 221	

74	b	NBoc	3,5-diAc-Ph	609
75	b	NAC	3,5-diAc-Ph	551
76	b	NMe	3,5-diAc-Ph	523
77	b	NEt	3,5-diAc-Ph	537
78	b	NCH2[1,2,4]oxadiaz	3,5-diAc-Ph	591
		ol-3-yl		
79	b	NCH2CONHiPr	3,5-diAc-Ph	608
80	b	NCH2C≡CH	3,5-diAc-Ph	547
81	b	NCO2Me	3-(1-Me-5- tetrazole)-Ph	565
82	b	NH	3-Me-5-(1-Me-5-	521
04	D	1411	tetrazole)-Ph	521
83	b	NBoc	3-Me-5-(1-Me-5-	621
			tetrazole)-Ph	
84	b	NAC	3-Me-5-(1-Me-5-	563
			tetrazole)-Ph	ļ
85	b	NMe	3-Me-5-(1-Me-5-	535
			tetrazole)-Ph	ļ
86	b	NEt	3-Me-5-(1-Me-5-	549
0.5		1-1-1-1	tetrazole)-Ph	
87	b	NCH2[1,2,4]oxadiaz	3-Me-5-(1-Me-5-	603
0.0	3_	ol-3-yl	tetrazole)-Ph	600
88	b	NCH2CONHiPr	3-Me-5-(1-Me-5-	620
00	<u></u>		tetrazole)-Ph	FF0
89	b	NCH2C≡CH	3-Me-5-(1-Me-5-	559
90	b	NH	tetrazole)-Ph 3-Br-5-(1-Me-5-	585
90		NH	tetrazole)-Ph	202
91	b	NBoc	3-Br-5-(1-Me-5-	685
-	~	1.200	tetrazole)-Ph	005
92	b	NAc	3-Br-5-(1-Me-5-	627
		1	tetrazole)-Ph	
93	b	NMe	3-Br-5-(1-Me-5-	599
			tetrazole)-Ph	
94	b	NEt	3-Br-5-(1-Me-5-	613
			tetrazole)-Ph	
95	b	NCH2[1,2,4]oxadiaz	3-Br-5-(1-Me-5-	667
		ol-3-yl	tetrazole)-Ph	
96	b	NCH2CONHiPr	3-Br-5-(1-Me-5-	684
	+		tetrazole)-Ph	
97	b	NCH2C≡CH	3-Br-5-(1-Me-5-	623
2.0			tetrazole)-Ph	
98	b	NCH2COCH3	3-(5-Me-1-	563
	1	NO. CO. CO.	tetrazole)-Ph	405
99	b	NCH2COCH3	1-Me-pyrazol-3- yl	485
100	b	NCH2COCH3	thiazol-2-yl	488
101	b	NCH2COCH3	4-Me-5-C02Et-	574
			thiazol-2-yl	- · •
102	b	NCO2Me	5-Ac-4-Me-2-	546
			thiazole	
		- 		

[102]	1_	NGCOCITOCM - OCTTOCT	T 5 3 4 36 0	1 610
103	b	NCO2CH2CMe2CH2OH	5-Ac-4-Me-2-	618
104	1-	170071	thiazole	-
104	b	NCOEt	5-Ac-4-Me-2-	544
105			thiazole	
105	b	NCO-cyclopropyl	5-Ac-4-Me-2-	556
			thiazole	<u> </u>
106	b	NCO-cyclopentyl	5-Ac-4-Me-2-	584
			thiazole	
107	b	NCO-4-	5-Ac-4-Me-2-	600
	•	tetrahydropyran	thiazole	
108	b	NCOCH2OMe	5-Ac-4-Me-2-	560
			thiazole	
109	b	NCOCH2NMe2	5-Ac-4-Me-2-	573
			thiazole	1
110	b	NCONHMe	5-Ac-4-Me-2-	545
			thiazole	
111	b	NCONMe2	5-Ac-4-Me-2-	559
	-	1700112102	thiazole	335
112	b	NCONHET	5-Ac-4-Me-2-	559
	~	Neomine	thiazole	339
113		NEt	5-Ac-4-Me-2-	516
113	ט	NEC	thiazole	210
114	b	NPr	5-Ac-4-Me-2-	530
+ + 4	ນ	NPI		530
115	b	Pré Des	thiazole	
172	Q	NiPr	5-Ac-4-Me-2-	530
110	1.	377 -17	thiazole	
116	b	N-cyclobutyl	5-Ac-4-Me-2-	542
110	٦.		thiazole	
117	b	N-cyclopentyl	5-Ac-4-Me-2-	556
110			thiazole	
118	b	N-4-	5-Ac-4-Me-2-	572
		tetrahydropyran	thiazole	
119	b	N-4-	5-Ac-4-Me-2-	588
1		tetrahydrothiopyra	thiazole	
L		n		
120	b	N-4-	5-Ac-4-Me-2-	620
		tetrahydrothiopyra	thiazole	
		n -dioxide		
121	b	N-4-piperidine	5-Ac-4-Me-2-	571
			thiazole	L
122	b	N-4-piperidinyl-	5-Ac-4-Me-2-	671
		Вос	thiazole	
123	b	N-4-piperidinyl-Ac	5-Ac-4-Me-2-	613
			thiazole	·
124	b	N-4-piperidinyl-Me	5-Ac-4-Me-2-	585
			thiazole	i -
125	b	NCH2-cyclopropyl	5-Ac-4-Me-2-	542
			thiazole	- 12
126	b	NCH2-cyclobutyl	5-Ac-4-Me-2-	556
120	~	Menz cyclobacyl	thiazole	ا مدد ا
127	b	NCH2Ph	5-Ac-4-Me-2-	578
14/	,	INCHZFII		2/8
		1	thiazole	

128	b	NCH2-2-furan	5-Ac-4-Me-2-	572
			thiazole	
129	b	NCH2-3-furan	5-Ac-4-Me-2-	572
			thiazole	
130	b	NCH2-2-thiophene	5-Ac-4-Me-2-	584
			thiazole	ł
131	b	NCH2-3-thiophene	5-Ac-4-Me-2-	584
		1	thiazole	ĺ
132	b	NCH2-2-imidazole	5-Ac-4-Me-2-	568
		·	thiazole	
133	b	NCH2-4-imidazole	5-Ac-4-Me-2-	568
1 1		1	thiazole	
134	b	NCH2-2-thiazole	5-Ac-4-Me-2-	585
			thiazole	303
135	b	NCH2[1,2,4]oxadiaz	5-Ac-4-Me-2-	570
	~	01-3-yl	thiazole	1370
136	b	NCH2CH2OH	5-Ac-4-Me-2-	532
	~	Nenzenzon	thiazole	334
137	b	NCH2CMe2OH	5-Ac-4-Me-2-	560
~~ /	2	NCHZCHEZOH	thiazole	300
138	b	NCH2CHOHCF3	5-Ac-4-Me-2-	600
1 230	D	NCH2CHORCE 5	thiazole	1 600
139	b	NCH2CH2OMe	5-Ac-4-Me-2-	546
139	D	NCH2CH2OME		546
140	b	NCHOCHOORE	thiazole	
140	· D	NCH2CH2OEt	5-Ac-4-Me-2-	560
141	b	NCH2CH2SEt	thiazole	F26
141	D	NCH2CH2SEC	5-Ac-4-Me-2-	576
142	b	MOUSCHAROLD	thiazole	600
144	D	NCH2CH2SO2Et	5-Ac-4-Me-2-	608
143	b	MOTIONION	thiazole	F 57.4
143	Ď	NCH2CH2OAc	5-Ac-4-Me-2-	574
144	b	270770 027	thiazole	
144	a	NCH2CN	5-Ac-4-Me-2-	527
145	b	NOTE OF TOTAL	thiazole	
145	b	NCH2CH2NMe2	5-Ac-4-Me-2-	559
146	b	NGIVO GITONTIL O	thiazole	505
140	a	NCH2CH2NEt2	5-Ac-4-Me-2-	587
1 477	7_	270770 2770 3 1 1 1	thiazole	
147	b	NCH2CH2pyrrolidine	5-Ac-4-Me-2-	585
1.40			thiazole	
148	b	NCH2CH2morpholine	5-Ac-4-Me-2-	601
140			thiazole	
149	b	NCH2CH2pyrrole	5-Ac-4-Me-2-	581
			thiazole	
150	b	NCH2CH2COMe	5-Ac-4-Me-2-	558
			thiazole	
151	b	NCH2CHMeCOMe	5-Ac-4-Me-2-	572
			thiazole	
152	b	NCH2CH2CH2OH	5-Ac-4-Me-2-	546
			thiazole	
153	b	(R)-NCH2CHMeCH2OH	5-Ac-4-Me-2-	560
			thiazole	
				لـــــــــــــــــا

154	b	(S)-NCH2CHMeCH2OH	5-Ac-4-Me-2-	T 560
124	D	(5) -NCIIZCIMeCHZON	thiazole	300
155	b	NCH2COtBu	5-Ac-4-Me-2-	586
123	D	NCIIZCOCBU	thiazole	300
156	b	NCH2CONHMe	5-Ac-4-Me-2-	559
1 201	D	NCIIZCONIME	thiazole	339
157	b	NCH2CONHiPr	5-Ac-4-Me-2-	587
13/	D	NCII2COIVIIII	thiazole	1 307
158	b	NCH2CONHtBu	5-Ac-4-Me-2-	601
	~	IVCII2 COIVII CDQ	thiazole	001
159	b	NCH2CONMe2	5-Ac-4-Me-2-	573
			thiazole	3,3
160	b	N-2-	5-Ac-4-Me-2-	570
		oxocyclopentane	thiazole	1
161	b	N-allyl	5-Ac-4-Me-2-	528
			thiazole	
162	b	N-propargyl	5-Ac-4-Me-2-	526
]			thiazole	
163	đ	. NH	4-F-Ph	443
164	đ	NAC	4-F-Ph	485
165	đ	NCOCH20Me	4-F-Ph	515
166	đ	NCH2cyclopropyl	4-F-Ph	497
167	đ	NCH2CH2OH	4-F-Ph	487
168	đ	NCOCH20Me	3-Ac-Ph	539
169	d	NCOCH2NMe2	3-Ac-Ph	552
170	đ	NCONHET	3-Ac-Ph	538
171	đ	NCH2CH2OH	3-Ac-Ph	511
172	đ	NCO2tBu	3-(1-Me-5-	607
	.=		tetrazole)-Ph	
173	đ	NAC	3-(1-Me-5-	549
	<u>-</u>		tetrazole)-Ph	
174	đ	NCOtBu	3-(1-Me-5-	591
			tetrazole)-Ph	
175	đ	NMe	3-(1-Me-5-	520
100			tetrazole)-Ph	
176	đ	· NH	3-Me-5-(1-Me-5-	521
177	đ	NIGHTO GITTO OTT	tetrazole)-Ph	
1 / /	a	NCH2CH2OH	3-Me-5-(1-Me-5-	565
178	đ	NIII	tetrazole)-Ph 3-Br-5-(1-Me-5-	F04
1/0	α	NH	•	584
179	đ	NCH2CH2OH	tetrazole)-Ph 3-Br-5-(1-Me-5-	600
1/3	u .	NCH2CH2OH	tetrazole)-Ph	629
180	đ	NAc	3-(5-Me-1-	549
100	u	INAC	tetrazole)-Ph	349
181		NAC	1-Me-pyrazol-3-	471
101	. u	IVAC		#/1
182	đ	NAC	yl thiazol-2-yl	474
183	<u>d</u>	NAC	4-Me-5-CO2Et-	560
700	u	IVAC	thiazol-2-yl	200
184	đ	NH	5-Ac-4-Me-2-	488
104	u	1,111	thiazole	400
		I—————————————————————————————————————		

186 d	405		T	γ	T
186	185	đ	NCO2Me	5-Ac-4-Me-2-	546
187 d	1200				
187	186	a	NCO2tBu		588
Thiazole Thiazole	107				+
188 d	187	α	NAC		530
Thiazole Thiazole	100		MOOTH		
189 d	1 700	α	NCOEE		544
190 d NCOtBu	100		NCO: Dec		FEO
190 d NCOtBu	103	u	NCOIPE		558
191 d NCO-cyclopropyl 5-Ac-4-Me-2- 55-Ac-4-Me-2- 55-Ac-4-Me-2- 55-Ac-4-Me-2- 55-Ac-4-Me-2- 57-Ac-4-Me-2- 5	190	٦	NCO+P11		572
191 d NCO-cyclopropyl 5-Ac-4-Me-2- 55-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 57-Ac-4-Me-2- 58-Ac-4-Me-2- 5		u	Neoebu	1	3/2
Thiazole Thiazole	191		NCO-cyclopropyl		556
192 d NCO-cyclobutyl 5-Ac-4-Me-2- thiazole 5-Ac-4-Me-2- thiazole 194 d NCO-cyclohexyl 5-Ac-4-Me-2- thiazole 195 d NCO-4- tetrahydropyran 5-Ac-4-Me-2- thiazole 196 d NCOCH2OMe 5-Ac-4-Me-2- 5-Ac		~	neo cyclopiopyi		1 330
193 d NCO-cyclopentyl 5-Ac-4-Me-2- 58	192	ď	NCO-cyclobutyl		570
Thiazole Thiazole				•	3,0
Thiazole Thiazole	193	đ	NCO-cyclopentyl	5-Ac-4-Me-2-	584
Thiazole Thiazole				thiazole	
195 d NCO-4- 5-Ac-4-Me-2- 60	194	đ	NCO-cyclohexyl	5-Ac-4-Me-2-	598
tetrahydropyran				thiazole	
196	195	đ	·	5-Ac-4-Me-2-	600
Thiazole 197 d			tetrahydropyran	thiazole	Ì
197 d NCOCH2NMe2 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 55 thiazole 5-Ac-4-Me-2- 55 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 57 202 d NCONH-allyl 5-Ac-4-Me-2- 57 thiazole 57 203 d NCONH-(5-Ac-4-Me- 5-Ac-4-Me-2- 67 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 58 208 d N-4-piperidinyl-Me 5-Ac-4-Me-2- 58 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 54	196	đ	NCOCH2OMe	5-Ac-4-Me-2-	560
197 d NCOCH2NMe2 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 55 thiazole 5-Ac-4-Me-2- 55 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 57 thiazole 57 202 d NCONH-allyl 5-Ac-4-Me-2- 57 thiazole 57 203 d NCONH-(5-Ac-4-Me- 5-Ac-4-Me-2- 67 thiazole 5-Ac-4-Me-2- 57 thiazole 5-Ac-4-Me-2- 58 208 d N-4-piperidinyl-Me 5-Ac-4-Me-2- 58 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 54 thiazole 5-Ac-4-Me-2- 54	1 1			thiazole	
Thiazole 198 d	197	đ	NCOCH2NMe2		573
thiazole 199 d NCONHET 5-Ac-4-Me-2- 55 thiazole 200 d NCONHPT 5-Ac-4-Me-2- 57 thiazole 201 d NCONHIPT 5-Ac-4-Me-2- 57 thiazole 202 d NCONH-allyl 5-Ac-4-Me-2- 57 thiazole 203 d NCONH-(5-Ac-4-Me- 5-Ac-4-Me-2- 67 thiazole 204 d NMe 5-Ac-4-Me-2- 50 thiazole 205 d N-4-piperidine 5-Ac-4-Me-2- 57 thiazole 206 d N-4-piperidinyl-Ac 5-Ac-4-Me-2- 61 thiazole 207 d N-4-piperidinyl-Me 5-Ac-4-Me-2- 58 thiazole 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 54 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 58 tetrahydropyran 5-Ac-4-Me-2- 58				thiazole	
NCONHET S-Ac-4-Me-2- S5	198	d	NCONHMe	5-Ac-4-Me-2-	545
Thiazole Solution Solution		_		thiazole	
NCONHPT S-Ac-4-Me-2- 57	199	đ	NCONHET	5-Ac-4-Me-2-	559
NCONHPT S-Ac-4-Me-2- 57				thiazole	
Thiazole 201 d NCONHiPr 5-Ac-4-Me-2- 57 thiazole	200	d	NCONHPr		573
NCONHiPr S-Ac-4-Me-2- 57					
thiazole 202 d NCONH-allyl 5-Ac-4-Me-2- 57	201	ď	NCONHi Pr		573
NCONH-allyl 5-Ac-4-Me-2- 57		-	2100441212		3,3
thiazole 203 d NCONH-(5-Ac-4-Me- 5-Ac-4-Me-2- 67 thiazol-2-yl) thiazole 204 d NMe 5-Ac-4-Me-2- 50 thiazole 205 d N-4-piperidine 5-Ac-4-Me-2- 57 thiazole 206 d N-4-piperidinyl-Ac 5-Ac-4-Me-2- 61 thiazole 207 d N-4-piperidinyl-Me 5-Ac-4-Me-2- 58 thiazole 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 54 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 58 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 58 thiazole	202	d	NCONH-allvl		571
NCONH-(5-Ac-4-Me-			11001111 01217]], _
thiazole 5-Ac-4-Me-2- 50 thiazole 205 d N-4-piperidine 5-Ac-4-Me-2- thiazole 206 d N-4-piperidinyl-Ac 5-Ac-4-Me-2- thiazole 207 d N-4-piperidinyl-Me 5-Ac-4-Me-2- thiazole 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- thiazole 209 d NCH2-2- tetrahydropyran 5-Ac-4-Me-2- 586 thiazole 5-Ac-4-Me-2- thiazole	203	d	NCONH-(5-Ac-4-Me-		670
204 d NMe 5-Ac-4-Me-2- 50	1 1				0,0
thiazole 205 d N-4-piperidine 5-Ac-4-Me-2- 57 thiazole	204	ď			502
205 d					302
thiazole	205	đ	N-4-piperidine		571
thiazole 207 d N-4-piperidinyl-Me 5-Ac-4-Me-2- 589 thiazole 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 549 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 580 tetrahydropyran thiazole					
207 d N-4-piperidinyl-Me	206	đ	N-4-piperidinyl-Ac	5-Ac-4-Me-2-	613
thiazole 208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 542 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 586 tetrahydropyran thiazole					
208 d NCH2-cyclopropyl 5-Ac-4-Me-2- 542 thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 586 tetrahydropyran thiazole	207	đ	N-4-piperidinyl-Me	5-Ac-4-Me-2-	585
thiazole 209 d NCH2-2- 5-Ac-4-Me-2- 580 tetrahydropyran thiazole					
209 d NCH2-2- 5-Ac-4-Me-2- 580 tetrahydropyran thiazole	208	đ	NCH2-cyclopropyl		542
tetrahydropyran thiazole					
	209	đ			586
			tetrahydropyran		
210	210	đ	NCH2-2-furan	5-Ac-4-Me-2-	568
thiazole	_			thiazole	

				-,
211	d	NCH2-3-furan	5-Ac-4-Me-2-	568
1-0	<u> </u>		thiazole	<u> </u>
212	đ	NCH2[1,2,4]oxadiaz	5-Ac-4-Me-2-	570
		o1-3-yl	thiazole	<u> </u>
213	đ	NCH2CH2F	5-Ac-4-Me-2-	534
			thiazole	
214	đ	NCH2CH2OH	5-Ac-4-Me-2-	532
			thiazole	
215	đ	NCH2CH2SO2Et	5-Ac-4-Me-2-	608
			thiazole	
216	đ	NCH2CN	5-Ac-4-Me-2-	527
			thiazole	
217	đ	NCH2CH2CH2OH	5-Ac-4-Me-2-	546
			thiazole	
218	đ	(R)-NCH2CHMeCH2OH	5-Ac-4-Me-2-	560
			thiazole	
219	đ	(S)-NCH2CHMeCH2OH	5-Ac-4-Me-2-	560
			thiazole	
220	đ	NCH2COMe	5-Ac-4-Me-2-	544
			thiazole	1
221	đ	NCH2CONMe2	5-Ac-4-Me-2-	573
			thiazole	
222	a	NCOiPr	3-(5-Me-1-	591
			tetrazole)-Ph	
223	a	NCOPh	3-(5-Me-1-	625
			tetrazole)-Ph	
224	a	NSO2iPr	3-(5-Me-1-	627
<u> </u>			tetrazole)-Ph	
225	đ	NH	CH2CH2-	462
			morpholin-1-yl	İ
226	đ	NCO2Me	CH2CH2-	520
			morpholin-1-yl]
227	đ	NAc	CH2CH2-	504
			morpholin-1-yl	
228	đ	NCOEt	CH2CH2-	518
,			morpholin-1-yl	
229	đ	NCOtBu	CH2CH2-	546
			morpholin-1-yl	
230	d	NCO-cyclobutyl	CH2CH2-	544
			morpholin-1-yl	
231	đ	NCO-4-	CH2CH2-	574
[[tetrahydropyran	morpholin-1-yl	
232	đ	NCOCH2OMe	CH2CH2-	534
		2,000 0,112 0,100	morpholin-1-yl	334
233	đ	NCONMe2	CH2CH2-	533
			morpholin-1-yl	233
234	đ	NCONHET	CH2CH2-	533
	•	14001411110	morpholin-1-yl	اددد
235	đ	NSO2Me	CH2CH2-	540
233	~	MOOZITE	morpholin-1-yl	540
236	đ	NMe	CH2CH2-	476
2.30	4	141.16		4/0
<u> </u>			morpholin-1-yl	

			1 1	
237	đ	NEt	CH2CH2-	490
<u> </u>			morpholin-1-yl	
238	d	NiPr	CH2CH2-	504
			morpholin-1-yl	
239	đ	NCH2cPr	CH2CH2-	516
		<u> </u>	morpholin-1-yl	
240	d	NCH2COMe	CH2CH2-	518
L			morpholin-1-yl	
241	d	0	3-(5-Me-1-	508
L			tetrazole)-Ph	
242	đ	0	3-Me-5-(1-Me-5-	522
		·	tetrazole)-Ph	
243	d	0	5-Ac-4-Me-2-	489
	_		thiazole	ĺ
244	b	NCO2Me	4-F-Ph	501
245	b	COCH2NMe2	4-F-Ph	528
246	b	NSO2Me	4-F-Ph	521
247	b	NCH2-thiazol-2-yl	4-F-Ph	540
248	b	NCH2CH2OH	4-F-Ph	487
249		NCH2CH2OMe	4-F-Ph	501
250	b	NCH2CH2-morpholin-	4-F-Ph	556
		1-y1		
251	b	NCH2CH2CH2OH	4-F-Ph	501
252	b .	NCO2Me	3,5-diAc-Ph	567
253	b	COCH2NMe2	3,5-diAc-Ph	594
254	b	NSO2Me	3,5-diAc-Ph	587
255	. b	N-4-THTP-dioxide	3,5-diAc-Ph	641
256	b	NCH2-thiazol-2-yl	3,5-diAc-Ph	606
257	b	NCH2CH2OH	3,5-diAc-Ph	553
258	b	NCH2CH2OMe	3,5-diAc-Ph	557
259	b	NCH2CH2-morpholin-	3,5-diAc-Ph	622
	_	1-y1] 3,3 4116 111	022
260	b	NCH2CH2CH2OH	3,5-diAc-Ph	567
261	b	NCO2Me	3-Me-5-(1-Me-5-	579
	_	11002110	tetrazole) -Ph	3,3
262	b	COCH2NMe2	3-Me-5-(1-Me-5-	606
			tetrazole) -Ph	
263	b	NSO2Me	3-Me-5-(1-Me-5-	599
		1	tetrazole)-Ph	
264	b	NCH2-thiazol-2-yl	3-Me-5-(1-Me-5-	618
	-	110112 011201201 11 11	tetrazole)-Ph	0.0
265	b	NCH2CH2OH	3-Me-5-(1-Me-5-	565
			tetrazole)-Ph	
266	b	NCH2CH2OMe	3-Me-5-(1-Me-5-	579
	~	11011201120110	tetrazole)-Ph	3,3
267	b	NCH2CH2-morpholin-	3-Me-5-(1-Me-5-	634
-37	-	1-y1	tetrazole)-Ph	224
268	b	NCH2CH2CH2OH	3-Me-5-(1-Me-5-	579
200	~	I TOTA CITA CITA CITA CITA CITA CITA CITA CI	tetrazole)-Ph	2,2
269	b	NCO2Me	3-Br-5-(1-Me-5-	643
2001	2	11002116	tetrazole) -Ph	043
		L	recrazore) - FII	

COCH2NMe2 3-Br-5-(1-Me-5- 670 tetrazole)-Ph			T		,
271 b	270	b	COCH2NMe2		670
Tetrazole Ph					
N-4-THTP-dioxide 3-Br-5-(1-Me-5- 717 tetrazole)-Ph	271	b	NSO2Me		663
Tetrazole Ph					
Description	272	b	N-4-THTP-dioxide		717
Tetrazole					
Description	273	b	NCH2-thiazol-2-yl		682
Tetrazole Ph					
Decoration Series Series	274	b	NCH2CH2OH		629
Tetrazole Ph		<u>-</u> -			
276	275	b	NCH2CH2OMe		643
Tetrazole Ph					
277 d	276	b	NCH2CH2CH2OH		643
278 d NH benzyl 439 279 d NBoc THP-4-ylmethyl 547 280 d NH THP-4-ylmethyl 447 281 d NBoc THP-4-ylethyl 561 282 d NH THP-4-ylethyl 461 283 d O 3-Me-5- (1-Me-5- 522 522 tetrazole)-Ph 284 d O 3-(1-Me-5- 522 508 284 d O 5-Ac-4-Me-2- 489 489 285 d O 5-Ac-4-Me-2- 463 489 286 d O 3-Ac-Ph 468 287 d O CH2CH2- 463 Morpholin-1yl 288 h SO2 3-Ac-Ph 523 289 h SO2 3-Ac-Ph 502 290 h SO2 3-Ac-Ph 502 291 h SO2 5-Ac-4-Me-2- 537 thiazole 293 i </td <td></td> <td></td> <td></td> <td></td> <td></td>					
NBoc					
NH					
281 d NBoc THP-4-ylethyl 561 282 d NH THP-4-ylethyl 461 283 d O 3-Me-5-(1-Me-5- 522 tetrazole)-Ph 284 d O 3-(1-Me-5- 508 tetrazole)-Ph 285 d O 5-Ac-4-Me-2- 489 thiazole 286 d O 3-Ac-Ph 468 thiazole 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole)-Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474			NBoc		547
282 d			NH	THP-4-ylmethyl	447
283 d O 3-Me-5-(1-Me-5- 522 tetrazole) -Ph 522 tetrazole) -Ph 284 d O 3-(1-Me-5- 508 tetrazole) -Ph 508 tetrazole) -Ph 285 d O 5-Ac-4-Me-2- 489 thiazole 468 thiazole 286 d O 3-Ac-Ph 468 thiazole 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole) -Ph 290 h SO2 3-Ac-Ph 502 tetrazole) -Ph 291 h SO2 3-Ac-Ph 502 tetrazole 292 i SO2 CH2CH2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole) -Ph 295 h NBoc 5-Ac-4-Me-2- 474			NBoc		561
284 d O 3-(1-Me-5- 508 tetrazole)-Ph 285 d O 5-Ac-4-Me-2- 489 thiazole 286 d O 3-Ac-Ph 468 thiazole 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole)-Ph 291 h SO2 Tetrazole- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	282	d	NH	THP-4-ylethyl	461
284 d O 3-(1-Me-5- tetrazole) - Ph 285 d O 5-Ac-4-Me-2- 489 thiazole 286 d O 3-Ac-Ph 468 thiazole 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole) - Ph 290 h SO2 3-Ac-Ph 502 tetrazole) - Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole) - Ph 295 h NBoc 5-Ac-4-Me-2- 474	283	đ	0		522
284 d O 3-(1-Me-5- tetrazole) - Ph 285 d O 5-Ac-4-Me-2- 489 thiazole 286 d O 3-Ac-Ph 468 thiazole 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole) - Ph 290 h SO2 3-Ac-Ph 502 tetrazole) - Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole) - Ph 295 h NBoc 5-Ac-4-Me-2- 474				tetrazole)-Ph	
285 d 0 5-Ac-4-Me-2- thiazole 286 d 0 3-Ac-Ph 468 287 d 0 CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole)-Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	284	đ	0		508
thiazole 286 d O 3-Ac-Ph 468 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole)-Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474					
286 d O 3-Ac-Ph 468 287 d O CH2CH2- 463 morpholin-1yl 288 h SO2 5-Ac-4-Me-2- 523 thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole)-Ph 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	285	d	0		489
morpholin-1yl					}
morpholin-1yl	286		0	3-Ac-Ph	468
288 h SO2 5-Ac-4-Me-2- thiazole 289 h SO2 3-(1-Me-5- 542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 tetrazole 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2- 537 thiazole 293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	287	đ	0	CH2CH2-	463
thiazole 289 h SO2 3-(1-Me-5-542 tetrazole)-Ph 290 h SO2 3-Ac-Ph 502 291 h SO2 CH2CH2- 497 morpholin-1yl 292 i SO2 5-Ac-4-Me-2-537 thiazole 293 i SO2 CH2CH2- morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5-607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474				morpholin-1yl	
289 h SO2 3-(1-Me-5-tetrazole)-Ph 542 290 h SO2 3-Ac-Ph 502 291 h SO2 CH2CH2-tetrazole 497 292 i SO2 5-Ac-4-Me-2-tetrazole 537 293 i SO2 CH2CH2-tetrazole 511 294 h NBoc 3-Me-5-(1-Me-5-tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2-tetrazole 474	288	h	S02		523
tetrazole) -Ph 290 h SO2 3-Ac-Ph 502 291 h SO2 CH2CH2- 497 morpholin-lyl morpholin-lyl 292 i SO2 5-Ac-4-Me-2- 537 thiazole thiazole 293 i SO2 CH2CH2- 511 morpholin-lyl morpholin-lyl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474					
290	289	h	SO2		542
291 h SO2 CH2CH2- morpholin-1yl 497 292 i SO2 5-Ac-4-Me-2- thiazole 537 thiazole 293 i SO2 CH2CH2- morpholin-1yl 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- tetrazole)-Ph 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474				tetrazole)-Ph	
morpholin-1yl		h			
292 i SO2 5-Ac-4-Me-2- thiazole 537 thiazole 293 i SO2 CH2CH2- morpholin-1yl 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	291	h	SO2		497
292 i SO2 5-Ac-4-Me-2- thiazole 537 thiazole 293 i SO2 CH2CH2- morpholin-1yl 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474				morpholin-1yl	
293 i SO2 CH2CH2- 511 morpholin-1yl 294 h NBoc 3-Me-5-(1-Me-5- 607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474	292	i	SO2	5-Ac-4-Me-2-	537
morpholin-1yl					
294 h NBoc 3-Me-5-(1-Me-5-607 tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2-474	293	i	SO2		511
tetrazole)-Ph 295 h NBoc 5-Ac-4-Me-2- 474					
295 h NBoc 5-Ac-4-Me-2- 474	294	h	NBoc		607
, , , , , , , , , , , , , , , , , , , ,				tetrazole)-Ph	
thiazole	295	h	NBoc		474
				thiazole	

The following tables contain representative examples of the present invention, and may be prepared by procedures described above, or methods familiar to one skilled in the art. Each entry in each table is

intended to be paired with each formulae at the start of the table. For example, Entry 1 in Table 2 is intended to be paired with each of formulae 1-12. (All stereocenters are (+/-) unless otherwise indicated)

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Table 2

10

Entry	R16	R9	R3
1	2-F	H	Ph
2	2-F	H	3-CN-Ph
3	2-F	H	3-COMe-Ph
4	2-F	H	3-CO2Me-Ph
5	2-F	H	3-CONH2-Ph

6	2-F	Н	2 CONTINO Db
7	2-F	H	3-CONHMe-Ph
8	2-F		3-F-Ph
9	2-F	H	3-C1-Ph
10	2-F		3-Br-Ph
	2-F	H	3-SO2NH2-Ph
11		H	3-SO2NHMe-Ph
12	2-F	H	3-CF3-Ph
13	2-F	H	3-OMe-Ph
14	2-F	H	3-SMe-Ph
15	2-F	H	3-SOMe-Ph
16	2-F	H	3-SO2Me-Ph
17	2-F	<u> </u>	3-OH-Ph
18	2-F	H	3-CH2OH-Ph
19	2-F	H	3-CHOHMe-Ph
20	2-F	H	3-COH (Me) 2-Ph
21	2-F	H	3-Me-Ph
22	2-F	H	3-Et-Ph
23	2-F	H	3-iPr-Ph
24	2-F	H	3-tBu-Ph
25	2-F	H	3-CH2CO2Me-Ph
26	2-F	H	3-(1-piperidinyl)-Ph
27	2-F	Н	3-(1-pyrrolidinyl)-Ph
28	2-F	H	3-(2-imidazolyl)-Ph
29	2-F	H	3-(1-imidazolyl)-Ph
30	2-F	H	3-(2-thiazoly1)-Ph
31	2-F	H	3-(3-pyrazolyl)-Ph
32	2-F	H	3-(1-pyrazolyl)-Ph
33	2-F	H	3-(5-Me-1-tetrazolyl)-Ph
34	2-F	H	3-(1-Me-5-tetrazolyl)-Ph
35	2-F	Н	3-(2-pyridyl)-Ph
36	2-F	Н	3-(2-thienyl)-Ph
37	2-F	Н	3-(2-furany1)-Ph
38	2-F	Н	4-CN-Ph
39	2-F	Н	4-COMe-Ph
40	2-F	Н	4-CO2Me-Ph
41	2-F	H	4-CONH2-Ph
42	2-F	H	4-CONHMe-Ph
43	2-F	H	4-CONHPh-Ph
44	2-F	H	4-F-Ph
45	2-F	H	4-C1-Ph
46	2-F	H	4-Br-Ph
47	2-F	— <u>—</u> —	4-SO2NH2-Ph
48	2-F	H	4-SO2NH2-FH 4-SO2NHMe-Ph
49	2-F	H	4-SOZNAME-PH 4-CF3-Ph
50	2-F	<u>н</u>	4-CF3-Ph 4-OMe-Ph
51	2-F	H	4-OME-PH 4-SMe-Ph
52	2-F		
53	2-F	H	4-SOMe-Ph
54		H	4-SO2Me-Ph
	2-F	H	4-OH-Ph
55	2-F	H	4-CH2OH-Ph
56	2-F	H	4-CHOHMe-Ph

r			
57	2-F	H	4-COH(Me)2-Ph
58	2-F	H	4-Me-Ph
59	2-F	<u>H</u>	4-Et-Ph
60	2-F	H	4-iPr-Ph
61	2-F	H	4-tBu-Ph
62	2-F	Н	4-CH2CO2Me-Ph
63	2-F	Н	4-(1-piperidinyl)-Ph
64	2-F	H	4-(1-pyrrolidinyl)-Ph
65	2-F	H	4-(2-imidazolyl)-Ph
66	2-F	H	4-(1-imidazoly1)-Ph
67	2-F	H	4-(2-thiazolyl)-Ph
68	2-F	H	4-(3-pyrazolyl)-Ph
69	2-F	H	4-(1-pyrazolyl)-Ph
70	2-F	H	4-(5-Me-1-tetrazolyl)-Ph
71	2-F	H	4-(1-Me-5-tetrazolyl)-Ph
72	2-F	H	4-(2-pyridyl)-Ph
73	2-F	H	4-(2-thienyl)-Ph
74	2-F	H	4-(2-furanyl)-Ph
75	2-F	H	2-CN-Ph
76	2-F	H	2-COMe-Ph
77	2-F	H	2-CO2Me-Ph
78	2-F	H	2-CONH2-Ph
79	2-F	H	2-CONHMe-Ph
80	2-F	Н	2-F-Ph
81	2-F	H	2-Cl-Ph
82	2-F	H	2-Br-Ph
83	2-F	H	2-SO2NH2-Ph
84	2-F	H	2-SO2NHMe-Ph
85	2-F	Н	2-CF3-Ph
86	2-F	H	2-OMe-Ph
87	2-F	H	2-SMe-Ph
88	2-F	H	2-SOMe-Ph
89	2-F	Н	2-SO2Me-Ph
90	2-F	H	2-OH-Ph
91	2-F	H	2-CH2OH-Ph
92	2-F	H	2-CHOHMe-Ph
93	2-F	H	2-COH(Me)2-Ph
94	2-F	H	2-Me-Ph
95	2-F	H	2-Et-Ph
96	2-F	Н	2-iPr-Ph
97	2-F	H	2-tBu-Ph
98	2-F	H	2-CH2CO2Me-Ph
99	2-F	H	2-(1-piperidinyl)-Ph
100	2-F	H	2-(1-pyrrolidinyl)-Ph
101	2-F	H	2-(2-imidazolyl)-Ph
102	2-F	H	2-(1-imidazolyl)-Ph
103	2-F	H	2-(2-thiazolyl)-Ph
104	2-F	Н	2-(3-pyrazolyl)-Ph
105	2-F	Н	2-(1-pyrazolyl)-Ph
106	2-F	H	2-(5-Me-1-tetrazoly1)-Ph
107	2-F	H	2-(1-Me-5-tetrazolyl)-Ph

108	1 2 E	TT.	2 (2
	2-F	H	2-(2-pyridyl)-Ph
109	2-F	H	2-(2-thienyl)-Ph
110	2-F	H	2-(2-furany1)-Ph
111	2-F	H	2,4-diF-Ph
112	2-F	H	2,5-diF-Ph
113	2-F	H	2,6-diF-Ph
114	2-F	H	3,4-diF-Ph
115	2-F	H	3,5-diF-Ph
116	2-F	H	2,4-diCl-Ph
117	2-F	H	2,5-diCl-Ph
118	2-F	H	2,6-diCl-Ph
119	2-F	H	3,4-diCl-Ph
120	2-F	H	3,5-diCl-Ph
121	2-F	H	3,4-diCF3-Ph
122	2-F	H	3,5-diCF3-Ph
123	2-F	H	5-C1-2-MeO-Ph
124	2-F	H	5-Cl-2-Me-Ph
125	2-F	H	2-F-5-Me-Ph
126	2-F	H	3-F-5-morpholino-Ph
127	2-F	H	3,4-OCH2O-Ph
128	2-F	H	3,4-OCH2CH2O-Ph
129	2-F	H	2-MeO-5-CONH2-Ph
130	2-F	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
131	2-F	H	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
132	2-F	H	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
133	2-F	H	1-naphthyl
134	2-F	H	2-naphthy1
135	2-F	H	2-thienyl
136	2-F	H	3-thienyl
137	2-F	H	2-furanyl
138	2-F	H	3-furanyl
139	2-F	H	2-pyridyl
140	2-F	H	3-pyridyl
141	2-F	H	4-pyridyl
142	2-F	H	2-indolyl
143	2-F	H	3-indolyl
144	2-F	H	5-indolyl
145	2-F	H	6-indolyl
146	2-F	H_	3-indazoly1
147	2-F	H	5-indazolyl
148_	2-F	Н	6-indazolyl
149	2-F	H	2-imidazolyl
150	2-F	Н	3-isoxazoyl
151	2-F	H	3-pyrazolyl
152	2-F	H	2-thiadiazolyl
153	2-F	Н	2-thiazolyl
154	2-F	Н	5-Ac-4-Me-2-thiazolyl
155	2-F	Н	5-tetrazolyl
156	2-F	Н	2-benzimidazolyl
157	2-F	Н	5-benzimidazolyl
158	2-F	н	2-benzothiazolyl

T 150	T 0 5	T	
159	2-F	H	5-benzothiazolyl
160	2-F	H	2-benzoxazolyl
161	2-F	H	5-benzoxazolyl
162	2-F	H	1-adamantyl
163	2-F	H	2-adamantyl
164	2-F	Н	i-Pr
165	2-F	H	t-Bu
166	2-F	Н	c-Hex
167	2-F	Н	CH2CH2OMe
168	2-F	Н	CH2CONH2
169	2-F	H	CH2CO2Me
170	2-F	H	CH (CH2Ph) CO2Me
171	2-F	H	CH2CH2NMe2
172	2-F	Н	benzyl
173	2-F	H	phenethyl
174	2-F	Н	2-(morpholin-1-yl)-Et
175	2-F	Me	Ph
176	2-F	Me	3-CN-Ph
177	2-F	Me	3-COMe-Ph
178	2-F	Me	3-CO2Me-Ph
179	2-F	Me	3-CONH2-Ph
180	2-F	Me	3-CONHMe-Ph
181	2-F	Me	3-F-Ph
182	2-F	Me	3-C1-Ph
183	2-F	Me	3-Br-Ph
184	2-F	Me	3-S02NH2-Ph
185	2-F	Me	3-SO2NHMe-Ph
186	2-F	Me	3-CF3-Ph
187	2-F	Me	3-OMe-Ph
188	2-F	Me	3-SMe-Ph
189	2-F	Me	3-SOMe-Ph
190	2-F	Me	3-SO2Me-Ph
191	2-F	Me	3-OH-Ph
192	2-F	Me	3-CH2OH-Ph
193	2-F	Me	3-CHOHMe-Ph
194	2-F	Me	3-COH (Me) 2-Ph
195	2-F	Me	3-Me-Ph
196	2-F	Me	3-Et-Ph
197	2-F	Me	3-iPr-Ph
198	2-F	Me	3-tBu-Ph
199	2-F	Me	3-CH2CO2Me-Ph
200	2-F	Me	3-(1-piperidinyl)-Ph
201	2-F	Me	3-(1-pyrrolidinyl)-Ph
202	2-F	Me	3-(2-imidazolyl)-Ph
203	2-F	Me	3-(1-imidazolyl)-Ph
204	2-F	Me	3-(2-thiazoly1)-Ph
205	2-F	Me Me	3-(2-thrazoly1)-Ph 3-(3-pyrazoly1)-Ph
206	2-F	Me	3-(3-pyrazoly1)-Ph 3-(1-pyrazoly1)-Ph
207	2-F	Me Me	3-(1-pyrazory1)-Ph 3-(5-Me-1-tetrazoly1)-Ph
208	2-F	Me Me	
209	2-F	Me Me	3-(1-Me-5-tetrazolyl)-Ph
207	2-5	TAG	3-(2-pyridyl)-Ph

210	1 2 12	7.6	3 /2 -1 - 3 > -3
	2-F	Me	3-(2-thienyl)-Ph
211 212	2-F 2-F	Me	3-(2-furanyl)-Ph
213		Me	4-CN-Ph
213	2-F	Me	4-COMe-Ph
214	2-F	Me	4-CO2Me-Ph
	2-F	Me	4-CONH2-Ph
216	2-F	Me	4-CONHMe-Ph
217	2-F	Me 、	4-CONHPh-Ph
218	2-F	Me	4-F-Ph
219	2-F	Me	4-Cl-Ph
220	2-F	Me	4-Br-Ph
221	2-F	Me	4-SO2NH2-Ph
222	2-F	Me	4-SO2NHMe-Ph
223	2-F	Me	4-CF3-Ph
224	2-F	Me	4-OMe-Ph
225	2-F	Me	4-SMe-Ph
226	2-F	Me	4-SOMe-Ph
227	2-F	Me	4-SO2Me-Ph
228	2-F	Me	4-OH-Ph
229	2-F	Me	4-CH2OH-Ph
230	2-F	Me	4-CHOHMe-Ph
231	2-F	Me	4-COH(Me)2-Ph
232	2-F	Me	4-Me-Ph
233	2-F	Me	4-Et-Ph
234	2-F	Me	4-iPr-Ph
235	2-F	Me	4-tBu-Ph
236	2-F	Me	4-CH2CO2Me-Ph
237	2-F	Me	4-(1-piperidinyl)-Ph
238	2-F	Me	4-(1-pyrrolidinyl)-Ph
239	2-F	Me	4-(2-imidazolyl)-Ph
240	2-F	Me	4-(1-imidazoly1)-Ph
241	2-F	Me	4-(2-thiazolyl)-Ph
242	2-F	Me	4-(3-pyrazolyl)-Ph
243	2-F	Me	4-(1-pyrazolyl)-Ph
244	2-F	Me	4-(5-Me-1-tetrazoly1)-Ph
245	2-F	Me	4-(1-Me-5-tetrazolyl)-Ph
246	2-F	Me	4-(2-pyridyl)-Ph
247	2-F	Me	4-(2-thienyl)-Ph
248	2-F	Me	4-(2-furanyl)-Ph
249	2-F	Me	2-CN-Ph
250	2-F	Me	2-COMe-Ph
251	2-F	Me	2-CO2Me-Ph
252	2-F	Me	2-CONH2-Ph
253	2-F	Me	2-CONHMe-Ph
254	2-F	Me	2-F-Ph
255	2-F	Me	2-Cl-Ph
256	2-F	Me	2-Br-Ph
257	2-F	Me	2-S02NH2-Ph
258	2-F	Me	2-SO2NHMe-Ph
259	2-F	Me	2-CF3-Ph
260	2-F	Me	2-OMe-Ph

261	2-F	Me	2-SMe-Ph
262	2-F	Me	2-SOMe-Ph
263	2-F	Me	2-SO2Me-Ph
264	2-F	Me	2-0H-Ph
265	2-F	Me	2-CH2OH-Ph
266	2-F	Me	2-CHOHMe-Ph
267	2-F	Me	
268	2-F	Me	2-COH (Me) 2-Ph
269	2-F	Me Me	2-Me-Ph 2-Et-Ph
270	2-F	Me Me	
271	2-F	 	2-iPr-Ph
272	2-F	Me Me	2-tBu-Ph
273	2-F		2-CH2CO2Me-Ph
274	2-F	Me	2-(1-piperidinyl)-Ph
275	2-F 2-F	Me	2-(1-pyrrolidinyl)-Ph
276	2-F 2-F	Me	2-(2-imidazolyl)-Ph
277	2-F 2-F	Me	2-(1-imidazoly1)-Ph
278	2-F	Me	2-(2-thiazolyl)-Ph
279	2-F 2-F	Me	2-(3-pyrazolyl)-Ph
	2-F 2-F	Me Me	2-(1-pyrazolyl)-Ph
280	2-F 2-F	Me	2-(5-Me-1-tetrazolyl)-Ph
281		Me	2-(1-Me-5-tetrazoly1)-Ph
282	2-F	Me	2-(2-pyridyl)-Ph
283	2-F	Me	2-(2-thienyl)-Ph
284	2-F	Me	2-(2-furany1)-Ph
285 286	2-F	Me	2,4-diF-Ph
287	2-F 2-F	Me	2,5-diF-Ph
288	2-F	Me	2,6-diF-Ph
289	2-F 2-F	Me	3,4-diF-Ph
290	2-F 2-F	Me	3,5-diF-Ph
291	2-F 2-F	Me	2,4-dicl-Ph
292	2-F 2-F	Me	2,5-diCl-Ph
293	2-F 2-F	Me Me	2,6-diCl-Ph
294	2-F 2-F	Me	3,4-diCl-Ph 3,5-diCl-Ph
295	2-F	Me	3,3 4161 111
296	2-F	Me	3,4-diCF3-Ph
297	2-F	Me	3,5-diCF3-Ph
298	2-F	Me	5-C1-2-MeO-Ph
299	2-F	Me Me	5-C1-2-Me-Ph
300	2-F		2-F-5-Me-Ph
301	2-F	Me	3-F-5-morpholino-Ph
302	2-F	Me	3,4-OCH2O-Ph
302	2-F	Me	3,4-OCH2CH2O-Ph
303		Me	2-MeO-5-CONH2-Ph
304	2-F	MeMe	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
	2-F	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
306	2-F	Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
307	2-F	Me	1-naphthyl
308	2-F	Me	2-naphthyl
309	2-F	Me	2-thienyl
310	2-F	Me	3-thienyl
311	2-F	<u>Me</u>	2-furanyl

312	2-F	Me	3-furanyl
313	2-F	Me	2-pyridyl
314	2-F	Me	3-pyridyl
315	2-F	Me	4-pyridyl
316	2-F	Me	2-indolyl
317	2-F	Me	3-indolyl
318	2-F	Me	5-indolyl
319	2-F	Me	6-indolyl
320	2-F	Me	3-indazolyl
321	2-F	Me	5-indazolyl
322	2-F	Me	6-indazolyl
323	2-F	Me	2-imidazolyl
324	2-F	Me	3-isoxazoyl
325	2-F	Me	3-pyrazolyl
326	2-F	Me	2-thiadiazolyl
327	2-F	Me	2-thiazolyl
328	2-F	Me	5-Ac-4-Me-2-thiazolyl
329	2-F	Me	5-tetrazolyl
330	2-F	Me	2-benzimidazolyl
331	2-F	Me	5-benzimidazolyl
332	2-F	Me	2-benzothiazolyl
333	2-F	Me	5-benzothiazolyl
334	2-F	Me	2-benzoxazolyl
335	2-F	Me	5-benzoxazolyl
336	2-F	Me	1-adamantyl
337	2-F	Me	2-adamantyl
338	2-F	Me	i-Pr
339	2-F	Me	t-Bu
340	2-F	Me	c-Hex
341	2-F	Me	CH2CH2OMe
342	2-F	Me	CH2CONH2
343	2-F	Me	CH2CO2Me
344	2-F	Me	CH (CH2Ph) CO2Me
345	2-F	Me	CH2CH2NMe2
346	2-F	Me	benzyl
347	2-F	Me	phenethyl
348	2-F	Me	2-(morpholin-1-yl)-Et
349	2-F	2-F-Et	Ph
350	2-F	2-F-Et	3-CN-Ph
351	2-F	2-F-Et	3-COMe-Ph
352	2-F	2-F-Et	3-CO2Me-Ph
353	2-F	2-F-Et	3-CONH2-Ph
354	2~F	2-F-Et	3-CONHMe-Ph
355	2-F	2-F-Et	3-F-Ph
356	2-F	2-F-Et	3-Cl-Ph
357	2-F	2-F-Et	3-Br-Ph
358	2-F	2-F-Et	3-SO2NH2-Ph
359	2-F	2-F-Et	3-SO2NHMe-Ph
360	2-F	2-F-Et	3-CF3-Ph
361	2-F	2-F-Et	3-OMe-Ph
362	2-F	2-F-Et	3-SMe-Ph

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363	2-F	2-F-Et	3-SOMe-Ph
364	2-F	2-F-Et	3-SO2Me-Ph
365	2-F	2-F-Et	3-OH-Ph
366	2-F	2-F-Et	3-CH2OH-Ph
367	2-F	2-F-Et	3-CHOHMe-Ph
368	2-F	2-F-Et	3-COH (Me) 2-Ph
369	2-F	2-F-Et	3-Me-Ph
370	2-F	2-F-Et	3-Et-Ph
371	2-F	2-F-Et	3-iPr-Ph
372	2-F	2-F-Et	3-tBu-Ph
373	2-F	2-F-Et	3-CH2CO2Me-Ph
374	2-F	2-F-Et	3-(1-piperidinyl)-Ph
375	2-F	2-F-Et	3-(1-pyrrolidinyl)-Ph
376	2-F	2-F-Et	3-(2-imidazolyl)-Ph
377	2-F	2-F-Et	3-(1-imidazolyl)-Ph
378	2-F	2-F-Et	3-(2-thiazolyl)-Ph
379	2-F	2-F-Et	3-(3-pyrazolyl)-Ph
380	2-F	2-F-Et	3-(1-pyrazolyl)-Ph
381	2-F	2-F-Et	3-(5-Me-1-tetrazolyl)-Ph
382	2-F	2-F-Et	3-(1-Me-5-tetrazolyl)-Ph
383	· 2-F	2-F-Et	3-(2-pyridyl)-Ph
384	2-F	2-F-Et	3-(2-thienyl)-Ph
385	2-F	2-F-Et	3-(2-furany1)-Ph
386	2-F	2-F-Et	4-CN-Ph
387	2-F	2-F-Et	4-COMe-Ph
388	2-F	2-F-Et	4-CO2Me-Ph
389	2-F	2-F-Et	4-CONH2-Ph
390	2-F	2-F-Et	4-CONHMe-Ph
391	2-F	2-F-Et	4-CONHPh-Ph
392	2-F	2-F-Et	4-F-Ph
393	2-F	2-F-Et	4-Cl-Ph
394	2-F	2-F-Et	4-Br-Ph
395	2-F	2-F-Et	4-SO2NH2-Ph
396	2-F	2-F-Et	4-SO2NHMe-Ph
397	2-F	2-F-Et	4-CF3-Ph
398	2-F	2-F-Et	4-OMe-Ph
399	2-F	2-F-Et	4-SMe-Ph
400	2-F	2-F-Et	4-SOMe-Ph
401	2-F	2-F-Et	4-SO2Me-Ph
402	2-F	2-F-Et	4-OH-Ph
403	2-F	2-F-Et	4-CH2OH-Ph
404	2-F	2-F-Et	4-CHOHMe-Ph
405	2-F	2-F-Et	4-COH (Me) 2-Ph
406	2-F	2-F-Et	4-Me-Ph
407	2-F	2-F-Et	4-Et-Ph
408	2-F	2-F-Et	4-iPr-Ph
409	2-F	2-F-Et	4-tBu-Ph
410	2-F	2-F-Et	4-CH2CO2Me-Ph
411	2-F	2-F-Et	4-(1-piperidinyl)-Ph
412	2-F	2-F-Et	4-(1-pyrrolidinyl)-Ph
413	2-F	2-F-Et	4-(2-imidazolyl)-Ph
		<u> </u>	4-(7-INITAGEOTAT)-LII

			
414	2-F	2-F-Et	4-(1-imidazolyl)-Ph
415	2-F	2-F-Et	4-(2-thiazolyl)-Ph
416	2-F	2-F-Et	4-(3-pyrazolyl)-Ph
417	2-F	2-F-Et	4-(1-pyrazolyl)-Ph
418	2-F	2-F-Et	4-(5-Me-1-tetrazolyl)-Ph
419	2-F	2-F-Et	4-(1-Me-5-tetrazolyl)-Ph
420	2-F	2-F-Et	4-(2-pyridyl)-Ph
421	2-F	2-F-Et	4-(2-thienyl)-Ph
422	2-F	2-F-Et	4-(2-furanyl)-Ph
423	2-F	2-F-Et	2-CN-Ph
424	2-F	2-F-Et	2-COMe-Ph
425	2-F	2-F-Et	2-CO2Me-Ph
426	2-F	2-F-Et	2-CONH2-Ph
427	2-F	2-F-Et	2-CONHMe-Ph
428	2-F	2-F-Et	2-F-Ph
429	2-F	2-F-Et	2-Cl-Ph
430	2-F	2-F-Et	2-Br-Ph
431	2-F	2-F-Et	2-SO2NH2-Ph
432	2-F	2-F-Et	2-SO2NHMe-Ph
433	2-F	2-F-Et	2-CF3-Ph
434	2-F	2-F-Et	2-OMe-Ph
435	2-F	2-F-Et	2-SMe-Ph
436	2-F	2-F-Et	2-SOMe-Ph
437	2-F	2-F-Et	2-SO2Me-Ph
438	2-F	2-F-Et	2-OH-Ph
439	2-F	2-F-Et	2-CH2OH-Ph
440	2-F	2-F-Et	2-CHOHMe-Ph
441	2-F	2-F-Et	2-COH (Me) 2-Ph
442	2-F	2-F-Et	2-Me-Ph
443	2-F	2-F-Et	2-Et-Ph
444	2-F	2-F-Et	2-iPr-Ph
445	2-F	2-F-Et	2-tBu-Ph
446	2-F	2-F-Et	2-CH2CO2Me-Ph
447	2-F	2-F-Et	2-(1-piperidinyl)-Ph
448	2-F	2-F-Et	2-(1-pyrrolidinyl)-Ph
449	2-F	2-F-Et	2-(2-imidazolyl)-Ph
450	2-F	2-F-Et	2-(1-imidazoly1)-Ph
451	2-F	2-F-Et	2-(2-thiazolyl)-Ph
452	2-F	2-F-Et	2-(3-pyrazoly1)-Ph
453	2-F	2-F-Et	2-(1-pyrazolyl)-Ph
454	2-F	2-F-Et	2-(5-Me-1-tetrazolyl)-Ph
455	2-F	2-F-Et	2-(1-Me-5-tetrazolyl)-Ph
456	2-F	2-F-Et	2-(2-pyridyl)-Ph
457	2-F	2-F-Et	2-(2-thienyl)-Ph
458	2-F	2-F-Et	2-(2-furany1)-Ph
459	2-F	2-F-Et	2,4-diF-Ph
460	2-F	2-F-Et	2,5-diF-Ph
461	2-F	2-F-Et	2,6-diF-Ph
462	2-F	2-F-Et	3,4-diF-Ph
463	2-F	2-F-Et	3,5-diF-Ph
464	2-F	2-F-Et	2,4-diCl-Ph

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465	2-F	2-F-Et	2,5-diCl-Ph
466	2-F	2-F-Et	2,6-diCl-Ph
467	2-F	2-F-Et	3,4-diCl-Ph
468	2-F	2-F-Et	3,5-diCl-Ph
469	2-F	2-F-Et	3,4-diCF3-Ph
470	2-F	2-F-Et	3,5-diCF3-Ph
471	2-F	2-F-Et	5-C1-2-MeO-Ph
472	2-F	2-F-Et	5-Cl-2-Me-Ph
473	2-F	2-F-Et	2-F-5-Me-Ph
474	2-F	2-F-Et	3-F-5-morpholino-Ph
475	2-F	2-F-Et	3,4-OCH2O-Ph
476	2-F	2-F-Et	3,4-OCH2CH2O-Ph
477	2-F	2-F-Et	2-MeO-5-CONH2-Ph
478	2-F	2-F-Et	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
479	2-F	2-F-Et	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
480	2-F	2-F-Et	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
481	2-F	2-F-Et	1-naphthyl
482	2-F	2-F-Et	2-naphthyl
483	2-F	2-F-Et	2-haphthyl 2-thienyl
484	2-F	2-F-Et	3-thienyl
485	2-F	2-F-Et	2-furanyl
486	2-F	2-F-Et	
487	2-F	2-F-Et	3-furanyl
488	2-F		2-pyridyl
489		2-F-Et	3-pyridyl
490	2-F 2-F	2-F-Et	4-pyridyl
491	2-F	2-F-Et	2-indolyl
492		2-F-Et	3-indolyl
	2-F	2-F-Et	5-indolyl
493	2-F	2-F-Et	6-indolyl
494	2-F	2-F-Et	3-indazolyl
495	2-F	2-F-Et	5-indazolyl
496	2-F	2-F-Et	6-indazolyl
497	2-F	2-F-Et	2-imidazolyl
498	2-F	2-F-Et	3-isoxazoyl
499	2-F	2-F-Et	3-pyrazolyl
500	2-F	2-F-Et	2-thiadiazolyl
501	2-F	2-F-Et	2-thiazolyl
502	2-F	2-F-Et	5-Ac-4-Me-2-thiazolyl
503	2-F	2-F-Et	5-tetrazolyl
504	2-F	2-F-Et	2-benzimidazolyl
505	2-F	2-F-Et	5-benzimidazolyl
506	2-F	2-F-Et	2-benzothiazoly1
507	2-F	2-F-Et	5-benzothiazolyl
508	2-F	2-F-Et	2-benzoxazolyl
509	2-F	2-F-Et	5-benzoxazolyl
510	2-F	2-F-Et	1-adamanty1
511	2-F	2-F-Et	2-adamantyl
512	2-F	2-F-Et	i-Pr
513	2-F	2-F-Et	t-Bu
514	2-F	2-F-Et	c-Hex
515	2-F	2-F-Et	CH2CH2OMe
	<u> </u>	<u> </u>	CHZCHZOME

516	2-F	2-F-Et	CH2CONH2
517	2-F	2-F-Et	CH2CO2Me
518	2-F	2-F-Et	CH(CH2Ph)CO2Me
519	2-F	2-F-Et	CH2CH2NMe2
520	2-F	2-F-Et	benzyl
521	2-F	2-F-Et	phenethyl
522	2-F	2-F-Et	2-(morpholin-1-yl)-Et
523	2-F	CO2Me	Ph
524	2-F	CO2Me	3-CN-Ph
525	2-F	CO2Me	3-COMe-Ph
526	2-F	CO2Me	3-CO2Me-Ph
527	2-F	CO2Me	3-CONH2-Ph
528	2-F	CO2Me	3-CONHMe-Ph
529	2-F	CO2Me	3-F-Ph
530	2-F	CO2Me	3-C1-Ph
531	2-F	CO2Me	3-Br-Ph
532	2-F	CO2Me	3-SO2NH2-Ph
533	2-F	CO2Me	3-SO2NHMe-Ph
534	2-F	CO2Me	3-CF3-Ph
535	2-F	CO2Me	3-OMe-Ph
536	2-F	CO2Me	3-SMe-Ph
537	2-F	CO2Me	3-SOMe-Ph
538	2-F	CO2Me	3-SO2Me-Ph
539	2-F	CO2Me	3-OH-Ph
540	2-F	CO2Me	3-CH2OH-Ph
541	2-F	CO2Me	3-CHOHMe-Ph
542	2-F	CO2Me	3-COH (Me) 2-Ph
543	2-F	CO2Me	3-Me-Ph
544	2-F	CO2Me	3-Et-Ph
545	2-F	CO2Me	3-iPr-Ph
546	2-F	CO2Me	3-tBu-Ph
547	2-F	CO2Me	3-CH2CO2Me-Ph
548	2-F	CO2Me	3-(1-piperidinyl)-Ph
549	2-F	CO2Me	3-(1-pyrrolidinyl)-Ph
550	2-F	CO2Me	3-(2-imidazoly1)-Ph
551	2-F	CO2Me	3-(1-imidazolyl)-Ph
552	2-F	CO2Me	3-(2-thiazolyl)-Ph
553	2-F	CO2Me	3-(3-pyrazolyl)-Ph
554	2-F	CO2Me	3-(1-pyrazolyl)-Ph
555	2-F	CO2Me	3-(5-Me-1-tetrazolyl)-Ph
556	2-F	CO2Me	3-(1-Me-5-tetrazolyl)-Ph
557	2-F	CO2Me	3-(2-pyridyl)-Ph
558	2-F	CO2Me	3-(2-thienyl)-Ph
559	2-F	CO2Me	3-(2-furany1)-Ph
560	2-F	CO2Me	4-CN-Ph
561	2-F	CO2Me	4-COMe-Ph
562	2-F	CO2Me	4-CO2Me-Ph
563	2-F	CO2Me	4-CONH2-Ph
564	2-F	CO2Me	4-CONHMe-Ph
565	2-F	CO2Me	······································
566	2-F		4-CONHPh-Ph
200	<u> </u>	CO2Me	4-F-Ph

567	2-F	CO2Me	4-Cl-Ph
568	2-F	CO2Me	4-Br-Ph
569	2-F	CO2Me	4-SO2NH2-Ph
570	2-F	CO2Me	4-SO2NHMe-Ph
571	2-F	CO2Me	4-CF3-Ph
572	2-F	CO2Me	4-OMe-Ph
573	2-F	CO2Me	4-SMe-Ph
574	2-F	CO2Me	4-SOMe-Ph
575	2-F	CO2Me	4-SO2Me-Ph
576	2-F	CO2Me	4-OH-Ph
577	2-F	CO2Me	4-CH2OH-Ph
578	2-F	CO2Me	4-CHOHMe-Ph
579	2-F	CO2Me	4-COH (Me) 2-Ph
580	2-F	CO2Me	4-Me-Ph
581	2-F	CO2Me	4-Et-Ph
582	2-F	CO2Me	4-iPr-Ph
583	2-F	CO2Me	4-tBu-Ph
584	2-F	CO2Me	4-CH2CO2Me-Ph
585	2-F	CO2Me	4-(1-piperidinyl)-Ph
586	2-F	CO2Me	4-(1-pyrrolidinyl)-Ph
587	2-F	CO2Me	4-(2-imidazolyl)-Ph
588	2-F	CO2Me	4-(1-imidazolyl)-Ph
589	2-F	CO2Me	4-(2-thiazolyl)-Ph
590	2-F	CO2Me	4-(3-pyrazolyl)-Ph
591	2-F	CO2Me	4-(1-pyrazolyl)-Ph
592	2-F	CO2Me	4-(5-Me-1-tetrazoly1)-Ph
593	2-F	CO2Me	4-(1-Me-5-tetrazolyl)-Ph
594	2-F	CO2Me	4-(2-pyridyl)-Ph
595	2-F	CO2Me	4-(2-thienyl)-Ph
596	2-F	CO2Me	4-(2-furanyl)-Ph
597	2-F	CO2Me	2-CN-Ph
598	2-F	CO2Me	2-COMe-Ph
599	2-F	CO2Me	2-CO2Me-Ph
600	2-F	CO2Me	2-CONH2-Ph
601	2-F	CO2Me	2-CONHMe-Ph
602	2-F	CO2Me	2-F-Ph
603	2-F	CO2Me	2-Cl-Ph
604	2-F	CO2Me	2-Br-Ph
605	2-F	CO2Me	.2-SO2NH2-Ph
606	2-F	CO2Me	2-SO2NHMe-Ph
607	2-F	CO2Me	2-CF3-Ph
608	2-F	CO2Me	2-OMe-Ph
609	2-F	CO2Me	2-SMe-Ph
610	2-F	CO2Me	2-SOMe-Ph
611	2-F	CO2Me	2-SO2Me-Ph
612	2-F	CO2Me	2-OH-Ph
613	2-F	CO2Me	2-CH2OH-Ph
614	2-F	CO2Me	2-CHOHMe-Ph
615	2-F	CO2Me	2-COH (Me) 2-Ph
616	2-F	CO2Me	2-Me-Ph
617	2-F	CO2Me	2-Et-Ph

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618	2-F	CO2Me	2-iPr-Ph
619	2-F	CO2Me	2-tBu-Ph
620	2-F	CO2Me	2-CH2CO2Me-Ph
621	2-F	CO2Me	2-(1-piperidinyl)-Ph
622	2-F	CO2Me	2-(1-pyrrolidinyl)-Ph
623	2-F	CO2Me	2-(2-imidazolyl)-Ph
624	2-F	CO2Me	2-(1-imidazolyl)-Ph
625	2-F	CO2Me	2-(2-thiazoly1)-Ph
626	2-F	CO2Me_	2-(3-pyrazoly1)-Ph
627	2-F	CO2Me	2-(1-pyrazolyl)-Ph
628	2-F	CO2Me	2-(5-Me-1-tetrazoly1)-Ph
629	2-F	CO2Me	2-(1-Me-5-tetrazolyl)-Ph
630	2-F	CO2Me	2-(2-pyridyl)-Ph
631	2-F	CO2Me_	2-(2-thienyl)-Ph
632	2-F	CO2Me	2-(2-furanyl)-Ph
633	2-F	CO2Me	2,4-diF-Ph
634	2-F	CO2Me	2,5-diF-Ph
635	2-F	CO2Me	2,6-diF-Ph
636	2-F	CO2Me	3,4-diF-Ph
637	2-F	CO2Me	3,5-diF-Ph
638	2-F	CO2Me	2,4-diCl-Ph
639	2-F	CO2Me	2,5-diCl-Ph
640	2-F	CO2Me	2,6-diCl-Ph
641	2-F	CO2Me	3,4-diCl-Ph
642	2-F	CO2Me	3,5-diCl-Ph
643	2-F	CO2Me	3,4-diCF3-Ph
644	2-F	CO2Me	3,5-diCF3-Ph
645	2-F	CO2Me	5-Cl-2-MeO-Ph
646	2-F	CO2Me	5-Cl-2-Me-Ph
647	2-F	CO2Me	2-F-5-Me-Ph
648	2-F	CO2Me	3-F-5-morpholino-Ph
649	2-F	CO2Me	3,4-OCH2O-Ph
650	2-F	CO2Me	3,4-OCH2CH2O-Ph
651	2-F	CO2Me	2-MeO-5-CONH2-Ph
652	2-F	CO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
653	2-F	CO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
654	2-F	CO2Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
655	2-F	CO2Me	1-naphthyl
656_	2-F	CO2Me	2-naphthyl
657	2-F	CO2Me	2-thienyl
658_	2-F	CO2Me	3-thienyl
659	2-F	CO2Me	2-furanyl
660	2-F	CO2Me	3-furanyl
661	2-F	CO2Me	2-pyridyl
662	2-F	CO2Me	3-pyridyl
663	2-F	CO2Me	4-pyridyl
664	2-F	CO2Me	2-indolyl
665	2-F	CO2Me	3-indolyl
666	2-F	CO2Me	5-indolyl
667	2-F	CO2Me	6-indolyl
668	2-F	CO2Me	3-indazolyl

669	2-F	CO2Me	5-indazolyl
670	2-F	CO2Me	6-indazolyl
671	2-F	CO2Me	2-imidazolyl
672	2-F	CO2Me	3-isoxazoyl
673	2-F	CO2Me	3-pyrazolyl
674	2-F	CO2Me	2-thiadiazolyl
675	2-F	CO2Me	2-thiazolyl
676	2-F	CO2Me	5-Ac-4-Me-2-thiazolyl
677	2-F	CO2Me	5-tetrazolyl
678	2-F	CO2Me	2-benzimidazolyl
679	2-F	CO2Me	5-benzimidazolyl
680	2-F	CO2Me	2-benzothiazolyl
681	2-F	CO2Me	5-benzothiazolyl
682	2-F	CO2Me	2-benzoxazolyl
683	2-F	CO2Me	5-benzoxazolyl
684	2-F	CO2Me	1-adamantyl
685	2-F	CO2Me	2-adamantyl
686	2-F	CO2Me	i-Pr
687	2-F	CO2Me	t-Bu
688	2-F	CO2Me	c-Hex
689	2-F	CO2Me	CH2CH2OMe
690	2-F	CO2Me	CH2CONH2
691	2-F	CO2Me	CH2CO2Me
692	2-F	CO2Me	CH (CH2Ph) CO2Me
693	2-F	CO2Me	CH2CH2NMe2
694	2-F	CO2Me	benzyl
695	2-F	CO2Me	phenethyl
696	2-F	CO2Me	2-(morpholin-1-yl)-Et
697	2-F	Ac	Ph
698	2-F	Ac	3-CN-Ph
699	2-F	Ac	3-COMe-Ph
700	2-F	Ac	3-CO2Me-Ph
701	2-F	Ac	3-CONH2-Ph
702	2-F	Ac	3-CONHMe-Ph
703	2-F	Ac	3-F-Ph
704	2-F	Ac	3-Cl-Ph
705	2-F	Ac	3-Br-Ph
706	2-F	Ac	3-SO2NH2-Ph
707	2-F	Ac	3-SO2NHMe-Ph
708	2-F	Ac	3-CF3-Ph
709	2-F	Ac	3-OMe-Ph
710	2-F	Ac	3-SMe-Ph
711	2-F	Ac	3-SOMe-Ph
712	2-F	Ac	3-SO2Me-Ph
713	2-F	Ac	3-OH-Ph
714	2-F	AC	3-CH2OH-Ph
715	2-F	Ac	3-CHOHMe-Ph
716	2-F	Ac	3-COH (Me) 2-Ph
717	2-F	Ac	3-Me-Ph
718	2-F	Ac	3-Et-Ph
719	2-F	AC	3-iPr-Ph
		AL 1) - 1 P (~ P ()

720	2-F	Ac	3-tBu-Ph
721	2-F	Ac	3-CH2CO2Me-Ph
722	2-F	Ac	3-(1-piperidinyl)-Ph
723	2-F	Ac	3-(1-pyrrolidinyl)-Ph
724	2-F	Ac	3-(2-imidazolyl)-Ph
725	2-F	Ac	3-(1-imidazolyl)-Ph
726	2-F	Ac	3-(2-thiazolyl)-Ph
727	2-F	Ac	3-(3-pyrazolyl)-Ph
728	2-F	Ac	3-(1-pyrazoly1)-Ph
729	2-F	Ac	3-(5-Me-1-tetrazoly1)-Ph
730	2-F	Ac	3-(1-Me-5-tetrazolyl)-Ph
731	2-F	Ac	3-(2-pyridyl)-Ph
732	2-F	Ac	3-(2-thieny1)-Ph
733	2-F	Ac	3-(2-furanyl)-Ph
734	2-F	Ac	4-CN-Ph
735	2-F	Ac	4-COMe-Ph
736	2-F	Ac	4-CO2Me-Ph
737	2-F	Ac	4-CONH2-Ph
738	2-F	Ac	4-CONHMe-Ph
739	2-F	Ac	4-CONHPh-Ph
740	2-F	Ac	4-F-Ph
741	2-F	Ac	4-Cl-Ph
742	2-F	Ac	4-Br-Ph
743	2-F	Ac	4-SO2NH2-Ph
744	2-F	Ac	4-SO2NHMe-Ph
745	2-F	Ac	4-CF3-Ph
746	2-F	Ac	4-OMe-Ph
747	2-F	Ac	4-SMe-Ph
748	2-F	Ac	4-SOMe-Ph
749	2-F	Ac	4-SO2Me-Ph
750	2-F	Ac	4-OH-Ph
751	2-F	Ac	4-CH2OH-Ph
752	2-F	Ac	4-CHOHMe-Ph
753	2-F	Ac	4-COH (Me) 2-Ph
754	2-F	Ac	4-Me-Ph
755	2-F	Ac	4-Et-Ph
756	2-F	Ac	4-iPr-Ph
757	2-F	Ac	4-tBu-Ph
758	2-F	Ac	4-CH2CO2Me-Ph
759	2-F	Ac	4-(1-piperidinyl)-Ph
760	2-F	Ac	4-(1-pyrrolidiny1)-Ph
761	2-F	Ac	4-(2-imidazoly1)-Ph
762	2-F	Ac	4-(1-imidazoly1)-Ph
763	2-F	Ac	4-(1-1midazofy1)-Ph 4-(2-thiazoly1)-Ph
764	2-F	AC	4-(2-chiazoly1)-Ph 4-(3-pyrazoly1)-Ph
765	2-F	Ac	4-(3-pyrazoly1)-Ph
766	2-F		
767	2-F	Ac	4-(5-Me-1-tetrazoly1)-Ph
768	2-F	Ac	4-(1-Me-5-tetrazolyl)-Ph
769		Ac	4-(2-pyridyl)-Ph
	2-F	Ac	4-(2-thienyl)-Ph
770	2-F	Ac	4-(2-furanyl)-Ph

771	2-F	Ac	2-CN-Ph
772	2-F	Ac	2-COMe-Ph
773	2-F	Ac	2-CO2Me-Ph
774	2-F	Ac	2-CONH2-Ph
775	2-F	Ac	2-CONHMe-Ph
776	2-F	Ac	2-F-Ph
777	2-F	Ac	2-Cl-Ph
778	2-F	Ac	2-Br-Ph
779	2-F	Ac	2-S02NH2-Ph
780	2-F	Ac	2-SO2NHMe-Ph
781	2-F	Ac	2-CF3-Ph
782	2-F	Ac	2-OMe-Ph
783	2-F	Ac	2-SMe-Ph
784	2-F	Ac	2-SOMe-Ph
785	2-F	Ac	2-S02Me-Ph
786	2-F	Ac	2-OH-Ph
787	2-F	Ac	2-CH2OH-Ph
788	2-F	Ac	2-CHOHMe-Ph
789	2-F	Ac	2-COH (Me) 2-Ph
790	2-F	Ac	2-Me-Ph
791	2-F	AC	2-Et-Ph
792	2-F	Ac	2-iPr-Ph
793	2-F	Ac	2-tBu-Ph
794	2-F	Ac	2-CH2CO2Me-Ph
795	2-F	Ac	2-(1-piperidinyl)-Ph
796	2-F	Ac	2-(1-pyrrolidiny1)-Ph
797	2-F	Ac	2-(2-imidazolyl)-Ph
798	2-F	Ac	2-(1-imidazolyl)-Ph
799	2-F	Ac	2-(2-thiazoly1)-Ph
800	2-F	Ac	2-(3-pyrazoly1)-Ph
801	2-F	Ac	2-(1-pyrazoly1)-Ph
802	2-F	Ac	2-(5-Me-1-tetrazolyl)-Ph
803	2-F	Ac	2-(1-Me-5-tetrazolyl)-Ph
804	2-F	Ac	2-(2-pyridyl)-Ph
805	2-F	Ac	2-(2-thienyl)-Ph
806	2-F	Ac	2-(2-furanyl)-Ph
807	2-F	Ac	2,4-dif-Ph
808	2-F	Ac	2,5-dif-Ph
809	2-F	AC	2,6-dif-Ph
810	2-F	Ac	3,4-diF-Ph
811	2-F	Ac	3,5-dif-Ph
812	2-F	Ac	2,4-diCl-Ph
813	2-F	Ac	2,5-diCl-Ph
814	2-F	Ac	2,6-diCl-Ph
815	2-F	Ac	3,4-diC1-Ph
816	2-F	Ac	
817	2-F		3,5-diCl-Ph 3,4-diCF3-Ph
818	2-F	Ac	
		Ac	3,5-diCF3-Ph
819	2-F	Ac	J C1-Z MeO-FII
820	2-F	Ac	5-C1-2-Me-Ph
821	2-F	Ac	2-F-5-Me-Ph

822	2-F	7.0	2 F C manufaction Db
823		Ac	3-F-5-morpholino-Ph
	2-F	Ac	3,4-OCH2O-Ph
824	2-F	Ac	3,4-OCH2CH2O-Ph
825	2-F	Ac	2-MeO-5-CONH2-Ph
826	2-F	Ac	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
827	2-F	Ac	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
828	2-F	Ac	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
829	2-F	Ac	1-naphthy1
830	2-F	Ac	2-naphthyl
831	2-F	Ac	2-thienyl
832	2-F	AC	3-thienyl
833	2-F	Ac	2-furanyl
834	2-F	Ac	3-furanyl
835	2-F	Ac	2-pyridyl
836	2-F	Ac	3-pyridyl
837	2-F	Ac	4-pyridyl
838	2-F	Ac	2-indolyl
839	2-F	Ac	3-indolyl
840	2-F	Ac	5-indolyl
841	2-F	Ac	6-indolyl
842	2-F	Ac	3-indazolyl
843	2-F	Ac	5-indazolyl
844	2-F	Ac	6-indazolyl
845	2-F	Ac	2-imidazolyl
846	2-F	Ac	3-isoxazoyl
847	2-F	Ac	3-pyrazolyl
848	2-F	Ac	2-thiadiazolyl
849	2-F	Ac	2-thiazolyl
850	2-F	Ac	5-Ac-4-Me-2-thiazolyl
851	2-F	Ac	5-tetrazolyl
852	2-F	Ac	2-benzimidazolyl
853	2-F	Ac	5-benzimidazolyl
854	2-F	Ac	2-benzothiazolyl
855	2-F	Ac	5-benzothiazolyl
856	2-F	Ac	2-benzoxazolyl
857	2-F	Ac	5-benzoxazolyl
858	2-F	Ac	1-adamanty1
859	2-F	Ac	2-adamantyl
860	2-F	Ac	i-Pr
861	2-F	Ac	t-Bu
862	2-F	Ac	c-Hex
863	2-F	Ac	CH2CH2OMe
864	2-F	Ac	CH2CONH2
865	2-F	Ac	CH2CO2Me
866	2-F	Ac	CH (CH2Ph) CO2Me
867	2-F	Ac	CH2CH2NMe2
868	2-F	Ac	benzyl
869	2-F	Ac	phenethyl
870	2-F	Ac	2-(morpholin-1-yl)-Et
871	2-F	COtBu	Ph
872	2-F	COtBu	3-CN-Ph
3.2		COLBU	7_CM_LTI

		·	
873	2-F	COtBu	3-COMe-Ph
874	2-F	COtBu	3-CO2Me-Ph
875	2-F	COtBu	3-CONH2-Ph
876	2-F	COtBu	3-CONHMe-Ph
877	2-F	COtBu	3-F-Ph
878	2-F	COtBu	3-Cl-Ph
879	2-F	COtBu	3-Br-Ph
880	2-F	COtBu	3-SO2NH2-Ph
881	2-F	COtBu	3-SO2NHMe-Ph
882	2-F	COtBu	3-CF3-Ph
883	2-F	COtBu	3-OMe-Ph
884	2-F	COtBu	3-SMe-Ph
885	2-F	COtBu	3-SOMe-Ph
886	2-F	COtBu	3-SO2Me-Ph
887	2-F	COtBu	3-OH-Ph
888	2-F	COtBu	3-CH2OH-Ph
889	2-F	COtBu	3-CHOHMe-Ph
890	2-F	COtBu	3-COH (Me) 2-Ph
891	2-F	COtBu	3-Me-Ph
892	2-F	COtBu	3-Et-Ph
893	2-F	COtBu	3-iPr-Ph
894	2-F	COtBu	3-tBu-Ph
895	2-F	COtBu	3-CH2CO2Me-Ph
896	2-F	COtBu	3-(1-piperidinyl)-Ph
897	2-F	COtBu	3-(1-pyrrolidinyl)-Ph
898	2-F	COtBu	3-(2-imidazolyl)-Ph
899	2-F	COtBu	3-(1-imidazoly1)-Ph
900	2-F	COtBu	3-(2-thiazoly1)-Ph
901	2-F	COtBu	3-(3-pyrazoly1)-Ph
902	2-F	COtBu	3-(1-pyrazolyl)-Ph
903	2-F	COtBu	3-(5-Me-1-tetrazolyl)-Ph
904	2-F	COtBu	3-(1-Me-5-tetrazolyl)-Ph
905	2-F	COtBu	3-(2-pyridyl)-Ph
906	2-F	COtBu	3-(2-thienyl)-Ph
907	2-F	COtBu	3-(2-furanyl)-Ph
908	2-F	COtBu	4-CN-Ph
909	2-F	COtBu	4-COMe-Ph
910	2-F	COtBu	4-CO2Me-Ph
911	2-F	COtBu	4-CONH2-Ph
912	2-F	COtBu	4-CONHMe-Ph
913	2-F	COtBu	4-CONHPh-Ph
914	2-F	COtBu	4-F-Ph
915	2-F	COtBu	4-Cl-Ph
916	2-F	COtBu	4-Br-Ph
917	2-F	COtBu	4-SO2NH2-Ph
918	2-F	COtBu	4-SO2NHMe-Ph
919	2-F	COtBu	4-CF3-Ph
920	2-F	COtBu	4-OMe-Ph
921	2-F	COtBu	4-SMe-Ph
922	2-F	COtBu	4-SOMe-Ph
923	2-F	COtBu	4-SO2Me-Ph

924	2-F	COtBu	4-OH-Ph
925	2-F	COtBu	4-CH2OH-Ph
926	2-F	COtBu	4-CHOHMe-Ph
927	2-F	COtBu	4-COH(Me)2-Ph
928	2-F	COtBu	4-Me-Ph
929	2-F	COtBu	4-Et-Ph
930	2-F	COtBu	4-iPr-Ph
931	2-F	COtBu	4-tBu-Ph
932	2-F	COtBu	4-CH2CO2Me-Ph
933	2-F	COtBu	4-(1-piperidinyl)-Ph
934	2-F	COtBu	4-(1-pyrrolidinyl)-Ph
935	2-F	COtBu	4-(2-imidazolyl)-Ph
936	2-F	COtBu	4-(1-imidazolyl)-Ph
937	2-F	COtBu	4-(2-thiazoly1)-Ph
938	2-F	COtBu	4-(3-pyrazoly1)-Ph
939	2-F	COtBu	4-(1-pyrazoly1)-Ph
940	2-F	COtBu	4-(5-Me-1-tetrazolyl)-Ph
941	2-F	COtBu	4-(1-Me-5-tetrazolyl)-Ph
942	2-F	COtBu	4-(2-pyridyl)-Ph
943	2-F	COtBu	4-(2-thienyl)-Ph
944	2-F	COtBu	4-(2-furanyl)-Ph
945	2-F	COtBu	2-CN-Ph
946	2-F	COtBu	2-COMe-Ph
947	2-F	COtBu	2-CO2Me-Ph
948	2-F	COtBu	2-CONH2-Ph
949	2-F	COtBu	2-CONHMe-Ph
950	2-F	COtBu	2-F-Ph
951	2-F	COtBu	2-Cl-Ph
952	2-F	COtBu	2-Br-Ph
953	2-F	COtBu	2-SO2NH2-Ph
954	2-F	COtBu	2-SO2NHMe-Ph
955	2-F	COtBu	2-CF3-Ph
956	2-F	COtBu	2-OMe-Ph
957	2-F	COtBu	2-SMe-Ph
958	2-F	COtBu	2-SOMe-Ph
959	2-F	COtBu	2-SO2Me-Ph
960	2-F	COtBu	2-OH-Ph
961	2-F	COtBu	2-CH2OH-Ph
962	2-F	COtBu	2-CHOHMe-Ph
963	2-F	COtBu	2-COH(Me)2-Ph
964	2-F	COtBu	2-Me-Ph
965	2-F	COtBu	2-Et-Ph
966	2-F	COtBu	2-iPr-Ph
967	2-F	COtBu	2-tBu-Ph
968	2-F	COtBu	2-CH2CO2Me-Ph
969	2-F	COtBu	2-(1-piperidinyl)-Ph
970	2-F	COtBu	2-(1-pyrrolidinyl)-Ph
971	2-F	COtBu	2-(2-imidazolyl)-Ph
972	2-F	COtBu	2-(1-imidazolyl)-Ph
973	2-F	COtBu	2-(2-thiazolyl)-Ph
974	2-F	COtBu	2-(3-pyrazolyl)-Ph
			- /- 6120202121 111

975	1 2 12	COFP	2 /1
976	2-F 2-F	COtBu	2-(1-pyrazolyl)-Ph
		COtBu	2-(5-Me-1-tetrazoly1)-Ph
977	2-F	COtBu	2-(1-Me-5-tetrazolyl)-Ph
978	2-F	COtBu	2-(2-pyridyl)-Ph
979	2-F	COtBu	2-(2-thienyl)-Ph
980	2-F	COtBu	2-(2-furanyl)-Ph
981	2-F	COtBu	2,4-diF-Ph
982	2-F	COtBu	2,5-diF-Ph
983	2-F	COtBu	2,6-diF-Ph
984	2-F	COtBu	3,4-diF-Ph
985	2-F	COtBu	3,5-diF-Ph
986	2-F	COtBu	2,4-diCl-Ph
987	2-F	COtBu	2,5-diCl-Ph
988	2-F	COtBu	2,6-diCl-Ph
989	2-F	COtBu	3,4-diCl-Ph
990	2-F	COtBu	3,5-diCl-Ph
991	2-F	COtBu	3,4-diCF3-Ph
992	2-F	COtBu	3,5-diCF3-Ph
993	2-F	COtBu	5-C1-2-MeO-Ph
994	2-F	COtBu	5-Cl-2-Me-Ph
995	2-F	COtBu	2-F-5-Me-Ph
996	2-F	COtBu	3-F-5-morpholino-Ph
997	2-F	COtBu	3,4-OCH2O-Ph
998	2-F	COtBu	3,4-OCH2CH2O-Ph
999	2-F	COtBu	2-MeO-5-CONH2-Ph
1000	2-F	COtBu	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1001	2-F	COtBu	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1002	2-F	COtBu	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1003	2-F	COtBu	1-naphthyl
1004	2-F	COtBu	2-naphthyl
1005	2-F	COtBu	2-thienyl
1006	2-F	COtBu	3-thienyl
1007	2-F	COtBu	2-furanyl
1008	2-F	COtBu	3-furanyl
1009	2-F	COtBu	2-pyridyl
1010	2-F	COtBu	3-pyridyl
1011	2-F	COtBu	4-pyridyl
1012	2-F	COtBu	2-indolyl
1013	2-F	COtBu	3-indolyl
1014	2-F	COtBu	5-indolyl
1015	2-F	COtBu	6-indolyl
1016	2-F	COtBu	3-indazolyl
1017	2-F	COtBu	5-indazolyl
1018	2-F	COtBu	6-indazolyl
1019	2-F	COtBu	2-imidazolyl
1020	2-F	COtBu	3-isoxazoyl
1021	2-F	COtBu	3-Isokazoyi 3-pyrazolyl
1022	2-F	COtBu	2-thiadiazolyl
1023	2-F	COtBu	
1023	2-F	COtBu	2-thiazolyl
1024	2-F	COtBu	5-Ac-4-Me-2-thiazolyl
1023	2-F	CULBU	5-tetrazolyl

1026 2-F				
1027 2-F COtBu	1026	2-F		2-benzimidazolyl
1029 2-F COLBU 2-benzoxazolyl 1030 2-F COLBU 2-benzoxazolyl 1031 2-F COLBU 5-benzoxazolyl 1032 2-F COLBU 1-adamantyl 1033 2-F COLBU 1-adamantyl 1033 2-F COLBU 1-Pr 1035 2-F COLBU 1-Pr 1035 2-F COLBU 1-Pr 1036 2-F COLBU 1-Pr 1037 2-F COLBU 1-Pr 1038 2-F COLBU 1-Pr 1038 2-F COLBU 1039 2-F COLBU CH2COME 1039 2-F COLBU CH2COZME 1040 2-F COLBU CH2CH2Me2 1041 2-F COLBU CH2CH2Me2 1041 2-F COLBU CH2CH2Me2 1042 2-F COLBU CH2CH2Me2 1043 2-F COLBU Denzyl 1044 2-F COLBU Denzyl 1044 2-F COLBU 2-(morpholin-1-yl)-Et 1045 2-F SOZME 3-COME-Ph 1046 2-F SOZME 3-COME-Ph 1047 2-F SOZME 3-COME-Ph 1048 2-F SOZME 3-COMP-Ph 1050 2-F SOZME 3-CONHME-Ph 1050 2-F SOZME 3-CONHME-Ph 1051 2-F SOZME 3-CONHME-Ph 1051 2-F SOZME 3-CONHME-Ph 1052 2-F SOZME 3-SOZNH2-Ph 1053 2-F SOZME 3-SOZNH2-Ph 1054 2-F SOZME 3-SOZNH2-Ph 1055 2-F SOZME 3-SOZNH2-Ph 1056 2-F SOZME 3-SOZNH2-Ph 1056 2-F SOZME 3-SOZNH2-Ph 1057 2-F SOZME 3-SOZNH2-Ph 1059 2-F SOZME 3-SOZNH2-Ph 1050 2-F SOZME 3-SOZNH2-Ph 1060 2-F SOZME 3-CH-Ph 1060 2-F SO			COtBu	5-benzimidazolyl
1030	1028		COtBu	2-benzothiazolyl
1030	1029		COtBu	5-benzothiazolyl
1032 2-F COtBu	1030	2-F	COtBu	
1033	1031	2-F	COtBu	5-benzoxazolyl
1034 2-F	1032	2-F	COtBu	1-adamantyl
1034 2-F COLBU 1-Pr 1035 2-F COLBU 1-BU 1036 2-F COLBU 1-BU 1037 2-F COLBU 1-BU 1038 2-F COLBU CH2CH2OME 1039 2-F COLBU CH2CONH2 1040 2-F COLBU CH2COME 1041 2-F COLBU CH2CH2NMe2 1041 2-F COLBU CH2CH2NMe2 1042 2-F COLBU Denzyl 1043 2-F COLBU Denzyl 1044 2-F COLBU 2-(morpholin-1-yl)-Et 1045 2-F SO2Me 3-CN-Ph 1046 2-F SO2Me 3-COME-Ph 1047 2-F SO2Me 3-COME-Ph 1048 2-F SO2Me 3-COMH2-Ph 1050 2-F SO2Me 3-CONH2-Ph 1051 2-F SO2Me 3-CONHME-Ph 1051 2-F SO2Me 3-CN-Ph 1052 2-F SO2Me 3-CN-Ph 1053 2-F SO2Me 3-SO2NH2-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NH2-Ph 1056 2-F SO2Me 3-SO2NH2-Ph 1057 2-F SO2Me 3-SO2NH2-Ph 1058 2-F SO2Me 3-SO2NH2-Ph 1059 2-F SO2Me 3-SO2NH2-Ph 1060 2-F SO2Me 3-SO2M-Ph 1061 2-F SO2Me 3-SO2M-Ph 1062 2-F SO2Me 3-SO2M-Ph 1063 2-F SO2Me 3-SO2M-Ph 1064 2-F SO2Me 3-SO2M-Ph 1065 2-F SO2Me 3-SO2M-Ph 1066 2-F SO2Me 3-CH2OH-Ph 1067 2-F SO2Me 3-CH2OH-Ph 1068 2-F SO2Me 3-CH2OH-Ph 1069 2-F SO2Me 3-CH2OH-Ph 1070 2-F SO2Me 3-CH2ODM-Ph 1071 2-F SO2Me 3-CH2OCOM-Ph 1072 2-F SO2Me 3-CH2OCOM-Ph 1073 2-F SO2Me 3-(1-piperidinyl)-Ph 1074 2-F SO2Me 3-(1-piperidinyl)-Ph 1075 2-F SO2Me 3-(1-piperidinyl)-Ph 1076 2-F SO2Me 3-(1-piperidinyl)-Ph 1077 2-F SO2Me 3-(1-piperidinyl)-Ph 1078 2-F SO2Me 3-(1-piperidinyl)-Ph 1079 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(1-piperidinyl)-Ph 1073 2-F SO2Me 3-(1-piperidinyl)-Ph 1075 2-F SO2Me 3-(2-imida	1033	2-F	COtBu	2-adamantyl
1036	1034	2-F	COtBu	
1037	1035	2-F	COtBu	t-Bu
1038 2-F COtBu	1036	2-F	COtBu	c-Hex
1039 2-F	1037	2-F	COtBu	CH2CH2OMe
1040 2-F COtBu	1038	2-F	COtBu	CH2CONH2
1041 2-F	1039	2-F	COtBu	
1042	1040		COtBu	CH(CH2Ph)CO2Me
1043	1041		COtBu	CH2CH2NMe2
1044 2-F COTBU 2-(morpholin-1-yl)-Et 1045 2-F SOZME Ph 1046 2-F SOZME 3-CN-Ph 1047 2-F SOZME 3-COME-Ph 1048 2-F SOZME 3-COME-Ph 1049 2-F SOZME 3-CONH2-Ph 1050 2-F SOZME 3-CONHME-Ph 1051 2-F SOZME 3-CN-Ph 1051 2-F SOZME 3-CN-Ph 1052 2-F SOZME 3-CN-Ph 1053 2-F SOZME 3-Br-Ph 1054 2-F SOZME 3-Br-Ph 1055 2-F SOZME 3-SOZNHME-Ph 1056 2-F SOZME 3-SOZNHME-Ph 1057 2-F SOZME 3-SOZNHME-Ph 1058 2-F SOZME 3-SME-Ph 1059 2-F SOZME 3-SME-Ph 1060 2-F SOZME 3-SOME-Ph 1060 2-F SOZME 3-SOZME-Ph 1061 2-F SOZME 3-CH2CH-Ph 1062 2-F SOZME 3-CH2CH-Ph 1063 2-F SOZME 3-CH2CH-Ph 1064 2-F SOZME 3-CHCHME-Ph 1065 2-F SOZME 3-CHCM-Ph 1066 2-F SOZME 3-CHOME-Ph 1067 2-F SOZME 3-CHCM-Ph 1068 2-F SOZME 3-CHCM-Ph 1069 2-F SOZME 3-CHCM-Ph 1069 2-F SOZME 3-CH2CH-Ph 1069 2-F SOZME 3-CH2CH-Ph 1069 2-F SOZME 3-CH2CH-Ph 1069 2-F SOZME 3-CH2CH-Ph 1069 2-F SOZME 3-CH2COZME-Ph 1070 2-F SOZME 3-CH2COZME-Ph 1070 2-F SOZME 3-CH2COZME-Ph 1070 2-F SOZME 3-CH2COZME-Ph 1071 2-F SOZME 3-CH2COZME-Ph 1072 2-F SOZME 3-(1-piperidinyl)-Ph 1073 2-F SOZME 3-(1-piperidinyl)-Ph 1074 2-F SOZME 3-(2-thiazolyl)-Ph 1074 2-F SOZME 3-(2-thiazolyl)-Ph 1075 2-F SOZME 3-(2-thiazolyl)-Ph	1042	2-F	COtBu	benzyl
1044 2-F COtBu 2-(morpholin-1-yl)-Et 1045 2-F SO2Me Ph 1046 2-F SO2Me 3-CN-Ph 1047 2-F SO2Me 3-COMe-Ph 1048 2-F SO2Me 3-COME-Ph 1049 2-F SO2Me 3-COMH2-Ph 1050 2-F SO2ME 3-CONH2-Ph 1051 2-F SO2ME 3-CI-Ph 1052 2-F SO2ME 3-CI-Ph 1053 2-F SO2ME 3-Br-Ph 1054 2-F SO2ME 3-SO2NH2-Ph 1055 2-F SO2ME 3-SO2NHME-Ph 1056 2-F SO2ME 3-SO2NHME-Ph 1057 2-F SO2ME 3-SO2NHME-Ph 1058 2-F SO2ME 3-SO2NHME-Ph 1059 2-F SO2ME 3-SO2ME-Ph 1060 2-F SO2ME 3-SO2ME-Ph 1060 2-F SO2ME 3-SO2ME-Ph 1061 2-F SO2ME 3-SO2ME-Ph 1062 2-F SO2ME 3-CH2CH-Ph 1063 2-F SO2ME 3-CH2CH-Ph 1064 2-F SO2ME 3-CH2CH-Ph 1065 2-F SO2ME 3-CH2CH-Ph 1066 2-F SO2ME 3-CH2CH-Ph 1066 2-F SO2ME 3-CH2CH-Ph 1066 2-F SO2ME 3-CH2CH-Ph 1066 2-F SO2ME 3-CH2CH-Ph 1067 2-F SO2ME 3-CH2CH-Ph 1068 2-F SO2ME 3-CH2CH-Ph 1069 2-F SO2ME 3-Bt-Ph 1069 2-F SO2ME 3-CH2CO2ME-Ph 1069 2-F SO2ME 3-CH2CO2ME-Ph 1070 2-F SO2ME 3-CH2CO2ME-Ph 1070 2-F SO2ME 3-CH2CO2ME-Ph 1070 2-F SO2ME 3-CH2CO2ME-Ph 1071 2-F SO2ME 3-(1-piperidinyl)-Ph 1072 2-F SO2ME 3-(1-piperidinyl)-Ph 1073 2-F SO2ME 3-(2-tinidazolyl)-Ph 1074 2-F SO2ME 3-(2-tinidazolyl)-Ph 1075 2-F SO2ME 3-(2-tinidazolyl)-Ph	1043		COtBu	phenethyl
1046	1044		COtBu	
1047	1045	2-F	SO2Me	
1048	1046	2-F	SO2Me	3-CN-Ph
1049 2-F SO2Me 3-CONH2-Ph 1050 2-F SO2Me 3-CONHME-Ph 1051 2-F SO2Me 3-F-Ph 1052 2-F SO2Me 3-Br-Ph 1053 2-F SO2Me 3-Br-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHME-Ph 1055 2-F SO2Me 3-SO2NHME-Ph 1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-SME-Ph 1058 2-F SO2Me 3-SME-Ph 1059 2-F SO2Me 3-SO2ME-Ph 1060 2-F SO2Me 3-SO2ME-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH2OH-Ph 1064 2-F SO2Me 3-CH0HME-Ph 1064 2-F SO2Me 3-CH (Me) 2-Ph 1066 2-F SO2Me 3-Et-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-Et-Ph 1069 2-F SO2Me 3-Et-Ph 1069 2-F SO2Me 3-CH2CO2ME-Ph 1070 2-F SO2Me 3-CH2CO2ME-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(1-piperidinyl)-Ph 1073 2-F SO2Me 3-(2-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(3-pyrazolyl)-Ph 1075 3-(3-pyrazolyl)-Ph 1075 3-(3-pyrazolyl)-Ph	1047	2-F	SO2Me	3-COMe-Ph
1050 2-F SO2Me 3-CONHMe-Ph 1051 2-F SO2Me 3-F-Ph 1052 2-F SO2Me 3-Br-Ph 1053 2-F SO2Me 3-Br-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-SO2NHMe-Ph 1057 2-F SO2Me 3-CH2HMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH2OH-Ph 1064 2-F SO2Me 3-Me-Ph 1065 2-F SO2Me 3-Et-Ph 1066 2-F SO2Me 3-Et-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 10	1048	2-F	SO2Me	3-CO2Me-Ph
1051 2-F SO2Me 3-F-Ph 1052 2-F SO2Me 3-C1-Ph 1053 2-F SO2Me 3-Br-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-OMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CHOHMe-Ph 1063 2-F SO2Me 3-CHOHMe-Ph 1064 2-F SO2Me 3-Me-Ph 1065 2-F SO2Me 3-Et-Ph 1066 2-F SO2Me 3-iFr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl) -Ph	1049		SO2Me	3-CONH2-Ph
1052 2-F SO2Me 3-Br-Ph 1053 2-F SO2Me 3-Br-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-OMe-Ph 1057 2-F SO2Me 3-SMe-Ph 1058 2-F SO2Me 3-SOMe-Ph 1059 2-F SO2Me 3-SO2Me-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Et-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-Et-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl) -Ph	1050	2-F	SO2Me	3-CONHMe-Ph
1053 2-F SO2Me 3-Br-Ph 1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-OMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH2OH-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-Et-Ph 1068 2-F SO2Me 3-Et-Ph 1069 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-CH2CO2Me-Ph 1071 2-F SO2Me 3-(1-piperidiny1)-Ph 1071 2-F SO2Me 3-(1-piperidiny1)-Ph 1072 2-F SO2Me 3-(2-imidazoly1)-Ph 1073 2-F SO2Me 3-(2-thiazoly1)-Ph 1074 2-F SO2Me 3-(2-thiazoly1)-Ph 1075 2-F SO2Me 3-(3-pyrazoly1)-Ph	1051		SO2Me	3-F-Ph
1054 2-F SO2Me 3-SO2NH2-Ph 1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-OMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SOMe-Ph 1061 2-F SO2Me 3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-IPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-pyrrolidinyl)-Ph 1073 2-F SO2Me 3-(2-imidazolyl)-Ph	1052		SO2Me	3-Cl-Ph
1055 2-F SO2Me 3-SO2NHMe-Ph 1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-OMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CH0HMe-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-Et-Ph 1068 2-F SO2Me 3-TBu-Ph 1069 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(2-imidazolyl)-Ph	1053		SO2Me	3-Br-Ph
1056 2-F SO2Me 3-CF3-Ph 1057 2-F SO2Me 3-OMe-Ph 1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-CH2OH-Ph 1062 2-F SO2Me 3-CH0HMe-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1073 2-F SO2Me 3-(2-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thi				3-SO2NH2-Ph
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1058 2-F SO2Me 3-SMe-Ph 1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-tBu-Ph 1070 2-F SO2Me 3-CH2CO2Me-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(2-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(3-pyrazolyl)-Ph			SO2Me	3-CF3-Ph
1059 2-F SO2Me 3-SOMe-Ph 1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph				3-OMe-Ph
1060 2-F SO2Me 3-SO2Me-Ph 1061 2-F SO2Me 3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-COH (Me) 2-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-pyrrolidinyl)-Ph 1072 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph			SO2Me	3-SMe-Ph
3-OH-Ph 1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CHOHMe-Ph 1064 2-F SO2Me 3-CHOHMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-iPr-Ph 1069 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(1-piperidinyl)-Ph 1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(3-pyrazolyl)-Ph 1075 3-P SO2Me 3-(3-pyrazolyl)-P			SO2Me	3-SOMe-Ph
1062 2-F SO2Me 3-CH2OH-Ph 1063 2-F SO2Me 3-CH0HMe-Ph 1064 2-F SO2Me 3-CH0HMe-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-piperidinyl)-Ph 1072 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph			SO2Me	3-SO2Me-Ph
1063 2-F SO2Me 3-CHOHMe-Ph 1064 2-F SO2Me 3-COH (Me) 2-Ph 1065 2-F SO2Me 3-Me-Ph 1066 2-F SO2Me 3-Et-Ph 1067 2-F SO2Me 3-iPr-Ph 1068 2-F SO2Me 3-CH2CO2Me-Ph 1070 2-F SO2Me 3-(1-piperidinyl)-Ph 1071 2-F SO2Me 3-(1-pyrrolidinyl)-Ph 1072 2-F SO2Me 3-(2-imidazolyl)-Ph 1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(2-thiazolyl)-Ph				
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1073 2-F SO2Me 3-(1-imidazolyl)-Ph 1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(3-pyrazolyl)-Ph		2-F	SO2Me	3-(1-pyrrolidinyl)-Ph
1074 2-F SO2Me 3-(2-thiazolyl)-Ph 1075 2-F SO2Me 3-(3-pyrazolyl)-Ph		2-F	SO2Me	3-(2-imidazolyl)-Ph
1075 2-F SO2Me 3-(3-pyrazolyl)-Ph			SO2Me	3-(1-imidazolyl)-Ph
			SO2Me	3-(2-thiazolyl)-Ph
1076 2-F SO2Me 3-(1-pyrazolyl)-Ph		2-F		
	1076	2-F	SO2Me	3-(1-pyrazolyl)-Ph

1077	1 2 =	G0035	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
1077	2-F	SO2Me	3-(5-Me-1-tetrazoly1)-Ph
1078	2-F	SO2Me	3-(1-Me-5-tetrazoly1)-Ph
1079	2-F	SO2Me	3-(2-pyridyl)-Ph
1080	2-F	SO2Me	3-(2-thienyl)-Ph
1081	2-F	SO2Me	3-(2-furanyl)-Ph
1082	2-F	SO2Me	4-CN-Ph
1083	2-F	SO2Me_	4-COMe-Ph
1084	2-F	SO2Me	4-CO2Me-Ph
1085	2-F	SO2Me	4-CONH2-Ph
1086	2-F	SO2Me	4-CONHMe-Ph
1087	2-F	SO2Me	4-CONHPh-Ph
1088	2-F	SO2Me	4-F-Ph
1089	2-F	SO2Me	4-Cl-Ph
1090	2-F	SO2Me	4-Br-Ph
1091	2-F	SO2Me	4-SO2NH2-Ph
1092	2-F	SO2Me	4-SO2NHMe-Ph
1093	2-F	SO2Me	4-CF3-Ph
1094	2-F	SO2Me	4-OMe-Ph
1095	2-F	SO2Me	4-SMe-Ph
1096	2-F	SO2Me	4-SOMe-Ph
1097	2-F	SO2Me	4-SO2Me-Ph
1098	2-F	SO2Me	4-OH-Ph
1099	2-F	SO2Me	4-CH2OH-Ph
1100	2-F	SO2Me	4-CHOHMe-Ph
1101	2-F	SO2Me	4-COH (Me) 2-Ph
1102	2-F	SO2Me	4-Me-Ph
1103	2-F	SO2Me	4-Et-Ph
1104	2-F	SO2Me	4-iPr-Ph
1105	2-F	SO2Me	4-tBu-Ph
1106	2-F	SO2Me	4-CH2CO2Me-Ph
1107	2-F	SO2Me	4-(1-piperidinyl)-Ph
1108	2-F	SO2Me	4-(1-pyrrolidinyl)-Ph
1109	2-F	SO2Me	4-(2-imidazolyl)-Ph
1110	2-F	SO2Me	4-(1-imidazolyl)-Ph
1111	2-F	SO2Me	4-(2-thiazolyl)-Ph
1112	2-F	SO2Me	4-(3-pyrazolyl)-Ph
1113	2-F	SO2Me	4-(1-pyrazolyl)-Ph
1114	2-F	SO2Me	4-(5-Me-1-tetrazolyl)-Ph
1115	2-F	SO2Me	4-(1-Me-5-tetrazolyl)-Ph
1116	2-F	SO2Me	4-(2-pyridyl)-Ph
1117	2-F	SO2Me	4-(2-thienyl)-Ph
1118	2-F	SO2Me	4-(2-furanyl)-Ph
1119	2-F	SO2Me	2-CN-Ph
1120	2-F	SO2Me	2-COMe-Ph
1121	2-F	SO2Me	2-CO2Me-Ph
1122	2-F	SO2Me	2-CONH2-Ph
1123	2-F	SO2Me	2-CONHMe-Ph
1124	2-F	SO2Me	2-F-Ph
1125	2-F	SO2Me	2-Cl-Ph
1126	2-F	SO2Me	2-Br-Ph
1127	2-F	SO2Me	2-S02NH2-Ph
	<u> </u>	DOPLIE	7-207MII7-EII

1128	2-F	SO2Me	2 GOONING DI
1129	2-F	SO2Me	2-SO2NHMe-Ph
1130	2-F	SO2Me	2-CF3-Ph
1131	2-F		2-OMe-Ph
	2-F	SO2Me	2-SMe-Ph
1132		SO2Me	2-SOMe-Ph
1133	2-F	SO2Me	2-SO2Me-Ph
1134	2-F	SO2Me	2-OH-Ph
1135	2-F	SO2Me	2-CH2OH-Ph
1136	2-F	SO2Me	2-CHOHMe-Ph
1137	2-F	SO2Me	2-COH (Me) 2-Ph
1138	2-F	SO2Me	2-Me-Ph
1139	2-F	SO2Me	2-Et-Ph
1140	2-F	SO2Me	2-iPr-Ph
1141	2-F	SO2Me	2-tBu-Ph
1142	2-F	SO2Me	2-CH2CO2Me-Ph
1143	2-F	SO2Me	2-(1-piperidinyl)-Ph
1144	2-F	SO2Me	2-(1-pyrrolidinyl)-Ph
1145	2-F	SO2Me	2-(2-imidazolyl)-Ph
1146	2-F	SO2Me	2-(1-imidazolyl)-Ph
1147	2-F	SO2Me	2-(2-thiazolyl)-Ph
1148	2-F	SO2Me	2-(3-pyrazolyl)-Ph
1149	2-F	SO2Me	2-(1-pyrazolyl)-Ph
1150	2-F	SO2Me	2-(5-Me-1-tetrazolyl)-Ph
1151	2-F	SO2Me	2-(1-Me-5-tetrazolyl)-Ph
1152	2-F	SO2Me	2-(2-pyridyl)-Ph
1153	2-F	SO2Me	2-(2-thienyl)-Ph
1154	2-F	SO2Me	2-(2-furany1)-Ph
1155	2-F	SO2Me	2,4-diF-Ph
1156	2-F	SO2Me	2,5-diF-Ph
1157	2-F	SO2Me	2,6-diF-Ph
1158	2-F	SO2Me	3,4-diF-Ph
1159	2-F	SO2Me	3,5-diF-Ph
1160	2-F	SO2Me	2,4-diCl-Ph
1161	2-F	SO2Me	2,5-diCl-Ph
1162	2-F	SO2Me	2,6-diCl-Ph
1163	2-F	SO2Me	3,4-diCl-Ph
1164	2-F	SO2Me	3,5-diCl-Ph
1165	2-F	SO2Me	3,4-diCF3-Ph
1166	2-F	SO2Me	3,5-diCF3-Ph
1167	2-F	SO2Me	5-C1-2-MeO-Ph
1168	2-F	SO2Me	5-C1-2-Me-Ph
1169	2-F	SO2Me	2-F-5-Me-Ph
1170	2-F	SO2Me	3-F-5-morpholino-Ph
1171	2-F	SO2Me	3,4-OCH2O-Ph
1172	2-F	SO2Me	3,4-OCH2CH2O-Ph
1173	2-F	SO2Me	2-MeO-5-CONH2-Ph
1174	2-F	SO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1175	2-F	SO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1176	2-F	SO2Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
1177	2-F	SO2Me	
1178	2-F	SO2Me	1-naphthyl
/ 0	Z-r	SUZME	2-naphthyl

1170	T 0 7	00016-	
1179	2-F	SO2Me	2-thienyl
1180	2-F	SO2Me	3-thienyl
1181	2-F	SO2Me	2-furanyl
1182	2-F	SO2Me	3-furanyl
1183	2-F	SO2Me	2-pyridyl
1184	2-F	SO2Me	3-pyridyl
1185	2-F	SO2Me	4-pyridyl
1186	2-F	SO2Me	2-indolyl
1187	2-F	SO2Me_	3-indolyl
1188	2-F	SO2Me	5-indolyl
1189	2-F	SO2Me	6-indolyl
1190	2-F	SO2Me	3-indazolyl
1191	2-F	SO2Me	5-indazolyl
1192	2-F	SO2Me	6-indazolyl
1193	2-F	SO2Me	2-imidazolyl
1194	2-F	SO2Me	3-isoxazoyl
1195	2-F	SO2Me	3-pyrazolyl
1196	2-F	SO2Me	2-thiadiazolyl
1197	2-F	SO2Me	2-thiazolyl
1198	2-F	SO2Me	5-Ac-4-Me-2-thiazolyl
1199	2-F	SO2Me	5-tetrazolyl
1200	2-F	SO2Me	2-benzimidazolyl
1201	2-F	SO2Me	5-benzimidazolyl
1202	2-F	SO2Me	2-benzothiazolyl
1203	2-F	SO2Me	5-benzothiazolyl
1204	2-F	SO2Me	2-benzoxazolyl
1205	2-F	SO2Me	5-benzoxazolyl
1206	2-F	SO2Me	1-adamantyl
1207	2-F	SO2Me	2-adamantyl
1208	2-F	SO2Me	i-Pr
1209	2-F	SO2Me	t-Bu
1210	2-F	SO2Me	c-Hex
1211	2-F	SO2Me	CH2CH2OMe
1212	2-F	SO2Me	CH2CONH2
1213	2-F	SO2Me	CH2CO2Me
1214	2-F	SO2Me	CH (CH2Ph) CO2Me
1215	2-F	SO2Me	CH2CH2NMe2
1216	2-F	SO2Me	benzyl
1217	2-F	SO2Me	phenethyl
1218	2-F	SO2Me	2-(morpholin-1-yl)-Et
1219	2-F	CH2COMe	Ph
1220	2-F	CH2COMe	3-CN-Ph
1221	2-F	CH2COMe	3-COMe-Ph
1222	2-F	CH2COMe	3-CO2Me-Ph
1223	2-F	CH2COMe	3-CONH2-Ph
1224	2-F	CH2COMe	3-CONHMe-Ph
1225	2-F	CH2COMe	3-F-Ph
1226	2-F	CH2COMe	3-C1-Ph
1227	2-F	CH2COMe	3-Br-Ph
1228	2-F	CH2COMe	3-S02NH2-Ph
1229	2-F	CH2COMe	
1443	Z-F	CHACOME	3-SO2NHMe-Ph

1230	2-F	CH2COMe	3-CF3-Ph
1231	2-F	CH2COMe	3-OMe-Ph
1232	2-F	CH2COMe	3-SMe-Ph
1233	2-F	CH2COMe	3-SOMe-Ph
1234	2-F	CH2COMe	3-SO2Me-Ph
1235	2-F	CH2COMe	3-OH-Ph
1236	2-F	CH2COMe	3-CH2OH-Ph
1237	2-F	CH2COMe	3-CHOHMe-Ph
1238	2-F	CH2COMe	3-COH (Me) 2-Ph
1239	2-F	CH2COMe	3-Me-Ph
1240	2-F	CH2COMe	3-Et-Ph
1241	2-F	CH2COMe	3-iPr-Ph
1242	2-F	CH2COMe	3-tBu-Ph
1243	2-F	CH2COMe	3-CH2CO2Me-Ph
1244	2-F	CH2COMe	3-(1-piperidinyl)-Ph
1245	2-F	CH2COMe	3-(1-pyrrolidinyl)-Ph
1246	2-F	CH2COMe	3-(2-imidazoly1)-Ph
1247	2-F	CH2COMe	3-(1-imidazolyl)-Ph
1248	2-F	CH2COMe	3-(2-thiazolyl)-Ph
1249	2-F	CH2COMe	3-(3-pyrazolyl)-Ph
1250	2-F	CH2COMe	3-(1-pyrazolyl)-Ph
1251	2-F	CH2COMe	3-(5-Me-1-tetrazolyl)-Ph
1252	2-F	CH2COMe	3-(1-Me-5-tetrazolyl)-Ph
1253	2-F	CH2COMe	3-(2-pyridyl)-Ph
1254	2-F	CH2COMe	3-(2-thienyl)-Ph
1255	2-F	CH2COMe	3-(2-furanyl)-Ph
1256	2-F	CH2COMe	4-CN-Ph
1257	2-F	CH2COMe	4-COMe-Ph
1258	2-F	CH2COMe	4-CO2Me-Ph
1259	2-F	CH2COMe	4-CONH2-Ph
1260	2-F	CH2COMe	4-CONHMe-Ph
1261	2-F	CH2COMe	4-CONHPh-Ph
1262	2-F	CH2COMe	4-F-Ph
1263	2-F	CH2COMe	4-Cl-Ph
1264	2-F	CH2COMe	4-Br-Ph
1265	2-F	CH2COMe	4-SO2NH2-Ph
1266	2-F	CH2COMe	4-SO2NHMe-Ph
1267	2-F	CH2COMe	4-CF3-Ph
1268	2-F	CH2COMe	4-OMe-Ph
1269	2-F	CH2COMe	4-SMe-Ph
1270	2-F	CH2COMe	4-SOMe-Ph
1271	2-F	CH2COMe	4-SO2Me-Ph
1272	2-F	CH2COMe	4-OH-Ph
1273	2-F	CH2COMe	4-CH2OH-Ph
1274	2-F	CH2COMe	4-CHOHMe-Ph
1275	2-F	CH2COMe	4-COH (Me) 2-Ph
1276	2-F	CH2COMe	4-Me-Ph
1277	2-F	CH2COMe	4-Et-Ph
1278	2-F	CH2COMe	4-iPr-Ph
1279	2-F	CH2COMe	4-tBu-Ph
1280	2-F	CH2COMe	4-CH2CO2Me-Ph

4004	T	T	r
1281	2-F	CH2COMe	4-(1-piperidinyl)-Ph
1282	2-F	CH2COMe	4-(1-pyrrolidinyl)-Ph
1283	2-F	CH2COMe	4-(2-imidazolyl)-Ph
1284	2-F	CH2COMe	4-(1-imidazolyl)-Ph
1285	2-F	CH2COMe	4-(2-thiazoly1)-Ph
1286	2-F	CH2COMe	4-(3-pyrazolyl)-Ph
1287	2-F	CH2COMe	4-(1-pyrazolyl)-Ph
1288	2-F	CH2COMe	4-(5-Me-1-tetrazoly1)-Ph
1289	2-F	CH2COMe	4-(1-Me-5-tetrazolyl)-Ph
1290	2-F	CH2COMe	4-(2-pyridyl)-Ph
1291	2-F	CH2COMe	4-(2-thienyl)-Ph
1292	2-F	CH2COMe	4-(2-furanyl)-Ph
1293	2-F	CH2COMe	2-CN-Ph
1294	2-F	CH2COMe	2-COMe-Ph
1295	2-F	CH2COMe	2-CO2Me-Ph
1296	2-F	CH2COMe	2-CONH2-Ph
1297	2-F	CH2COMe	2-CONHMe-Ph
1298	2-F	CH2COMe	2-F-Ph
1299	2-F	CH2COMe	2-C1-Ph
1300	2-F	CH2COMe	2-Br-Ph
1301	2-F	CH2COMe	2-SO2NH2-Ph
1302	2-F	CH2COMe	2-SO2NHMe-Ph
1303	2-F	CH2COMe	2-CF3-Ph
1304	2-F	CH2COMe	2-OMe-Ph
1305	2-F	CH2COMe	2-SMe-Ph
1306	2-F	CH2COMe	2-SOMe-Ph
1307	2-F	CH2COMe	2-SO2Me-Ph
1308	2-F	CH2COMe	2-OH-Ph
1309	2-F	CH2COMe	2-CH2OH-Ph
1310	2-F	CH2COMe	2-CHOHMe-Ph
1311	2-F	CH2COMe	2-COH(Me)2-Ph
1312	2-F	CH2COMe	2-Me-Ph
1313	2-F	CH2COMe	2-Et-Ph
1314	2-F	CH2COMe	2-iPr-Ph
1315	2-F	CH2COMe	2-tBu-Ph
1316	2-F	CH2COMe	2-CH2CO2Me-Ph
1317	2-F	CH2COMe	2-(1-piperidinyl)-Ph
1318	2-F	CH2COMe	2-(1-pyrrolidinyl)-Ph
1319	2-F	CH2COMe	2-(2-imidazolyl)-Ph
1320	2-F	CH2COMe	2-(1-imidazolyl)-Ph
1321	2-F	CH2COMe	2-(2-thiazolyl)-Ph
1322	2-F	CH2COMe	2-(3-pyrazolyl)-Ph
1323	2-F	CH2COMe	2-(1-pyrazolyl)-Ph
1324	2-F	CH2COMe	2-(5-Me-1-tetrazolyl)-Ph
1325	2-F	CH2COMe	2-(1-Me-5-tetrazolyl)-Ph
1326	2-F	CH2COMe	2-(2-pyridyl)-Ph
1327	2-F	CH2COMe	2-(2-thienyl)-Ph
1328	2-F	CH2COMe	2-(2-furanyl)-Ph
1329	2-F	CH2COMe	2,4-diF-Ph
1330	2-F	CH2COMe	2,5-diF-Ph
1331	2-F	CH2COMe	2,6-diF-Ph
			2,0 415-511

1332	2-F	CH2COMe	3,4-diF-Ph
1333	2-F		3,4-dir-Ph 3,5-dir-Ph
1334	2-F	CH2COMe CH2COMe	
1334	2-F	CH2COMe	2,4-diCl-Ph
1336	2-F		
		CH2COMe	2,6-diCl-Ph
1337	2-F	CH2COMe	3,4-diCl-Ph
1338	2-F	CH2COMe	3,5-diCl-Ph
1339	2-F	CH2COMe	3,4-diCF3-Ph
1340	2-F	CH2COMe	3,5-diCF3-Ph
1341	2-F	CH2COMe	5-Cl-2-MeO-Ph
1342	2-F	CH2COMe	5-C1-2-Me-Ph
1343	2-F	CH2COMe	2-F-5-Me-Ph
1344	2-F	CH2COMe	3-F-5-morpholino-Ph
1345	2-F	CH2COMe	3,4-OCH2O-Ph
1346	2-F	CH2COMe	3,4-OCH2CH2O-Ph
1347	2-F	CH2COMe	2-MeO-5-CONH2-Ph
1348	2-F	CH2COMe	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1349	2-F	CH2COMe	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1350	2-F	CH2COMe	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1351	2-F	CH2COMe	1-naphthyl
1352	2-F	CH2COMe	2-naphthyl
1353	2-F	CH2COMe	2-thienyl
1354	2-F	CH2COMe	3-thienyl
1355	2-F	CH2COMe	2-furanyl
1356	2-F	CH2COMe	3-furanyl
1357	2-F	CH2COMe	2-pyridyl
1358_	2-F	CH2COMe	3-pyridyl
1359	2-F	CH2COMe	4-pyridyl
1360	2-F	CH2COMe	2-indolyl
1361	2-F	CH2COMe	3-indolyl
1362	2-F	CH2COMe	5-indolyl
1363	2-F	CH2COMe	6-indolyl
1364	2-F	CH2COMe	3-indazolyl
1365	2-F	CH2COMe	5-indazolyl
1366	2-F	CH2COMe	6-indazolyl
1367	2-F	CH2COMe	2-imidazolyl
1368	2-F	CH2COMe	3-isoxazoyl
1369	2-F	CH2COMe	3-pyrazolyl
1370	2-F	CH2COMe	2-thiadiazolyl
1371	2-F	CH2COMe	2-thiazolyl
1372	2-F	CH2COMe	5-Ac-4-Me-2-thiazolyl
1373	2-F	CH2COMe	5-tetrazolyl
1374	2-F	CH2COMe	2-benzimidazolyl
1375	2-F	CH2COMe	5-benzimidazolyl
1376	2-F	CH2COMe	2-benzothiazolyl
1377	2-F	CH2COMe	5-benzothiazolyl
1378	2-F	CH2COMe	2-benzoxazoly1
1379	2-F	CH2COMe	5-benzoxazolyl
1380	2-F	CH2COMe	1-adamantyl
1381	2-F	CH2COMe	2-adamanty1
1382	2-F	CH2COMe	i-Pr
		CILLCOMO	<u> </u>

1383	2-F	CH2COMe	+ D1
1384	2-F		t-Bu
1385	2-F 2-F	CH2COMe	c-Hex
		CH2COMe	CH2CH2OMe
1386	2-F	CH2COMe	CH2CONH2
1387	2-F	CH2COMe	CH2CO2Me
1388	2-F	CH2COMe	CH(CH2Ph)CO2Me
1389	2-F	CH2COMe	CH2CH2NMe2
1390	2-F	CH2COMe	benzyl
1391	2-F	CH2COMe	phenethyl
1392	2-F	CH2COMe	2-(morpholin-1-yl)-Et
1393	3-F	H	Ph
1394	3-F	H	3-CN-Ph
1395	3-F	H	3-COMe-Ph
1396	3-F	Н	3-CO2Me-Ph
1397	3-F	Н	3-CONH2-Ph
1398	3-F	Н	3-CONHMe-Ph
1399	3-F	Н	3-F-Ph
1400	3-F	Н	3-Cl-Ph
1401	3-F	Н	3-Br-Ph
1402	3-F	Н	3-SO2NH2-Ph
1403	3-F	Н	3-SO2NHMe-Ph
1404	3-F	Н	3-CF3-Ph
1405	3-F	н	3-OMe-Ph
1406	3-F	H	3-SMe-Ph
1407	3-F	Н Н	3-SOMe-Ph
1408	3-F	H H	3-SO2Me-Ph
1409	3-F	H	3-OH-Ph
1410	3-F	H	3-CH2OH-Ph
1411	3-F	H	3-CHOHMe-Ph
1412	3-F	H	3-COH (Me) 2-Ph
1413	3-F	H	3-Me-Ph
1414	3-F	H	3-Et-Ph
1415	3-F	H	3-iPr-Ph
1416	3-F	H	
1417	3-F	H	3-tBu-Ph 3-CH2CO2Me-Ph
1418	3-F		
1419	3-F	H	3-(1-piperidinyl)-Ph
		H	3-(1-pyrrolidinyl)-Ph
1420	3-F	H	3-(2-imidazolyl)-Ph
1421	3-F	H	3-(1-imidazoly1)-Ph
1422	3~F	H	3-(2-thiazoly1)-Ph
1423	3-F	<u>H</u>	3-(3-pyrazolyl)-Ph
1424	3-F	H	3-(1-pyrazolyl)-Ph
1425	3-F	H	3-(5-Me-1-tetrazolyl)-Ph
1426	3-F	H	3-(1-Me-5-tetrazolyl)-Ph
1427	3-F	<u> </u>	3-(2-pyridyl)-Ph
1428	3-F	H	3-(2-thienyl)-Ph
1429	3-F	H	3-(2-furanyl)-Ph
1430	3-F	H	4-CN-Ph
1431	3-F	H	4-COMe-Ph
1432	3-F	H	4-CO2Me-Ph
1433	3-F	H	4-CONH2-Ph
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1434	2 72	TT	4 CONTRA - 11-
	3-F	H H	4-CONHMe-Ph
1435	3-F	H	4-CONHPh-Ph
1436	3-F	H	4-F-Ph
1437	3-F	H	4-Cl-Ph
1438	3-F	H	4-Br-Ph
1439	3-F	H	4-SO2NH2-Ph
1440	3-F	H	4-SO2NHMe-Ph
1441	3-F	H	4-CF3-Ph
1442	3-F	H	4-OMe-Ph
1443	3-F	H	4-SMe-Ph
1444	3-F	H	4-SOMe-Ph
1445	3-F	H	4-SO2Me-Ph
1446	3-F	H	4-OH-Ph
1447	3-F	H	4-CH2OH-Ph
1448	3-F	H	4-CHOHMe-Ph
1449	3-F	H	4-COH (Me) 2-Ph
1450	3-F	H	4-Me-Ph
1451	3-F	H	4-Et-Ph
1452	3-F	H	4-iPr-Ph
1453	3-F	H	4-tBu-Ph
1454	3-F	H	4-CH2CO2Me-Ph
1455	3-F	H	4-(1-piperidinyl)-Ph
1456	3-F	H	4-(1-pyrrolidinyl)-Ph
1457	3-F	H	4-(2-imidazoly1)-Ph
1458	3-F	H	4-(1-imidazolyl)-Ph
1459	3-F	H	4-(2-thiazolyl)-Ph
1460	3-F	H	4-(3-pyrazolyl)-Ph
1461	3-F	H	4-(1-pyrazolyl)-Ph
1462	3-F	H	4-(5-Me-1-tetrazoly1)-Ph
1463	3-F	H	4-(1-Me-5-tetrazolyl)-Ph
1464	3-F	H	4-(2-pyridyl)-Ph
1465	3-F	H	4-(2-thienyl)-Ph
1466	3-F	H	4-(2-furany1)-Ph
1467	3-F	H	2-CN-Ph
1468	3-F	Н	2-COMe-Ph
1469	3-F	H	2-CO2Me-Ph
1470	3-F	H	2-CONH2-Ph
1471	3-F	H	2-CONHMe-Ph
1472	3-F	H	2-F-Ph
1473	3-F	H	2-Cl-Ph
1474	3-F	H	2-Br-Ph
1475	3-F	H	2-SO2NH2-Ph
1476	3-F	Н	2-SO2NHMe-Ph
1477	3-F	H	2-CF3-Ph
1478	3-F	H	2-OMe-Ph
1479	3-F	н	2-SMe-Ph
1480	3-F	H	2-SOMe-Ph
1481	3-F	H	2-SOME-Ph
1482	3-F	H	2-0H-Ph
1483	3-F	H	2-CH2OH-Ph
1484	3-F	H	2-CH2OH-Ph
7 4 0 4	J-F	11	Z-CHOUME-FII

1405	1 3 =		0. 507 (25.) 0. 73
1485	3-F	H	2-COH (Me) 2-Ph
1486	3-F	H	2-Me-Ph
1487	3-F	H	2-Et-Ph
1488	3-F	H	2-iPr-Ph
1489	3-F	H	2-tBu-Ph
1490	3-F	H	2-CH2CO2Me-Ph
1491	3-F	H	2-(1-piperidiny1)-Ph
1492	3-F	H	2-(1-pyrrolidinyl)-Ph
1493	3-F	H	2-(2-imidazolyl)-Ph
1494	3-F	H	2-(1-imidazolyl)-Ph
1495	3-F	H	2-(2-thiazolyl)-Ph
1496	3-F	H	2-(3-pyrazolyl)-Ph
1497	3-F	H	2-(1-pyrazolyl)-Ph
1498	3-F	H	2-(5-Me-1-tetrazolyl)-Ph
1499	3-F	H	2-(1-Me-5-tetrazolyl)-Ph
1500	3-F	Н	2-(2-pyridyl)-Ph
1501	3-F	H	2-(2-thienyl)-Ph
1502	3-F	H	2-(2-furanyl)-Ph
1503	3-F	H	2,4-diF-Ph
1504	3-F	H	2,5-diF-Ph
1505	3-F	H	2,6-diF-Ph
1506	3-F	H	3,4-diF-Ph
1507	3-F	H	3,5-diF-Ph
1508	3-F	H	2,4-diCl-Ph
1509	3-F	Н	2,5-diCl-Ph
1510	3-F	H	2,6-diCl-Ph
1511	3-F	H	3,4-diCl-Ph
1512	3-F	H	3,5-diCl-Ph
1513	3-F	H	3,4-diCF3-Ph
1514	3-F	H	3,5-diCF3-Ph
1515	3-F	H	5-Cl-2-MeO-Ph
1516	3-F	H	5-C1-2-Me-Ph
1517	3-F	H	2-F-5-Me-Ph
1518	3-F	н	3-F-5-morpholino-Ph
1519	3-F	Н	3,4-OCH2O-Ph
1520	3-F	H	3,4-OCH2CH2O-Ph
1521	3-F	H	2-MeO-5-CONH2-Ph
1522	3-F	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1523	3-F	H	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1524	3-F	H	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1525	3-F	H	1-naphthyl
1526	3-F	H	2-naphthyl
1527	3-F	H	2-thienyl
1528	3-F	H	3-thienyl
1529	3-F	H	2-furanyl
1530	3-F	Н	3-furanyl
1531	3-F	H	2-pyridyl
1532	3-F	H	3-pyridyl
1533	3-F	H	4-pyridyl
1534	3-F	H	2-indolyl
1535	3-F	H	3-indoly1
		1	2-1140171

4506			
1536	3-F	<u>H</u>	5-indolyl
1537	3-F	H	6-indolyl
1538	3-F	H	3-indazolyl
1539	3-F	H	5-indazolyl
1540	3-F	H	6-indazolyl
1541	3-F	H	2-imidazolyl
1542	3-F	H	3-isoxazoyl
1543	3-F	H	3-pyrazolyl
1544	3-F	H	2-thiadiazolyl
1545	3-F	H	2-thiazolyl
1546	3-F	H	5-Ac-4-Me-2-thiazolyl
1547	3-F	H	5-tetrazolyl
1548	3-F	H	2-benzimidazolyl
1549	3-F	H	5-benzimidazolyl
1550	3-F	H	2-benzothiazolyl
1551	3-F	H	5-benzothiazolyl
1552	3-F	H	2-benzoxazolyl
1553	3-F	H	5-benzoxazolyl
1554	3-F	H	1-adamantyl
1555	3-F	H	2-adamantyl
1556	3-F	H	i-Pr
1557	3-F	H	t-Bu
1558	3-F	H	c-Hex
1559	3-F	H	CH2CH2OMe
1560	3-F	Н	CH2CONH2
1561	3-F	Н	CH2CO2Me
1562	3-F	Н	CH(CH2Ph)CO2Me
1563	3-F	H	CH2CH2NMe2
1564	3-F	H	benzyl
1565	3-F	Н	phenethyl
1566	3-F	H	2-(morpholin-1-yl)-Et
1567	3-F	Me	Ph
1568	3-F	Me	3-CN-Ph
1569	3-F	Me	3-COMe-Ph
1570	3-F	Me	3-CO2Me-Ph
1571	3-F	Me	3-CONH2-Ph
1572	3-F	Me	3-CONHMe-Ph
1573	3-F	Me	3-F-Ph
1574	3-F	Me	3-Cl-Ph
1575	3-F	Me	3-Br-Ph
1576	3-F	Me	3-SO2NH2-Ph
1577	3-F	Me	3-SO2NHMe-Ph
1578	3-F	Me	3-CF3-Ph
1579	3-F	Me	3-OMe-Ph
1580	3-F	Me	3-SMe-Ph
1581	3-F	Me	3-SOMe-Ph
1582	3-F	Me	3-SO2Me-Ph
1583	3-F	Me	3-0H-Ph
1584	3-F	Me	3-CH2OH-Ph
1585	3-F	Ме	3-CHOHMe-Ph
1586	3-F	Me Me	3-COH (Me) 2-Ph
1200	3-F	me I	3-COR (Me) 2-PR

		, 	
1587	3-F	Me	3-Me-Ph
1588	3-F	Me	3-Et-Ph
1589	3-F	. Me	3-iPr-Ph
1590	3~F	Me	3-tBu-Ph
1591	3~F	Me	3-CH2CO2Me-Ph
1592	3-F	Me	3-(1-piperidinyl)-Ph
1593	3-F	Me	3-(1-pyrrolidinyl)-Ph
1594	3-F	Me	3-(2-imidazolyl)-Ph
1595	3-F	Me	3-(1-imidazolyl)-Ph
1596	3-F	Me	3-(2-thiazolyl)-Ph
1597	3-F	Me	3-(3-pyrazoly1)-Ph
1598	3-F	Me	3-(1-pyrazolyl)-Ph
1599	3-F	Me	3-(5-Me-1-tetrazolyl)-Ph
1600	3-F	Me	3-(1-Me-5-tetrazoly1)-Ph
1601	3-F	Me	3-(2-pyridyl)-Ph
1602	3-F	Me	3-(2-thienyl)-Ph
1603	3-F	Me	3-(2-furanyl)-Ph
1604	3-F	Me	4-CN-Ph
1605	3-F	Me	4-COMe-Ph
1606	3-F	Me	4-CO2Me-Ph
1607	3-F	Me	4-CONH2-Ph
1608	3-F	Me	4-CONHMe-Ph
1609	3-F	Me	4-CONHPh-Ph
1610	3-F	Me	4-F-Ph
1611	3-F	Me	4-Cl-Ph
1612	3-F	Me	4-Br-Ph
1613	3-F	Me	4-SO2NH2-Ph
1614	3-F	Me	4-SO2NHMe-Ph
1615	3-F	Me	4-CF3-Ph
1616	3-F	Me	4-OMe-Ph
1617	3-F	Me	4-SMe-Ph
1618	3-F	Me	4-SOMe-Ph
1619	3-F	Me	4-SO2Me-Ph
1620	3-F	Me	4-OH-Ph
1621	3-F	Me	4-CH2OH-Ph
1622	3-F	Me	4-CHOHMe-Ph
1623	3-F	Me	4-COH (Me) 2-Ph
1624	3-F	Me	4-Me-Ph
1625	3-F	Me	4-Et-Ph
1626	3-F	Me	4-iPr-Ph
1627	3-F	Me	4-tBu-Ph
1628	3-F	Me	4-CH2CO2Me-Ph
1629	3-F	Me	4-(1-piperidinyl)-Ph
1630	3-F	Me	4-(1-pyrrolidinyl)-Ph
1631	3-F	Me	4-(2-imidazolyl)-Ph
1632	3-F	Me	4-(1-imidazolyl)-Ph
1633	3-F	Me	4-(2-thiazolyl)-Ph
1634	3-F	Me	4-(3-pyrazolyl)-Ph
1635	3-F	Me	4-(1-pyrazolyl)-Ph
1636	3-F	Me	4-(5-Me-1-tetrazoly1)-Ph
1637	3-F	Me	4-(1-Me-5-tetrazolyl)-Ph
			<u> </u>

1638	3-F	Me	4-(2-pyridyl)-Ph
1639	3-F	Me	4-(2-thienyl)-Ph
1640	3-F	Me	4-(2-furanyl)-Ph
1641	3-F	Me	2-CN-Ph
1642	3-F	Me	2-COMe-Ph
1643	3-F	Me	2-CO2Me-Ph
1644	3-F	Me	2-CONH2-Ph .
1645	3-F	Me	2-CONHMe-Ph
1646	3-F	Me	2-F-Ph
1647	3-F	Me	2-Cl-Ph
1648	3-F	Me	2-Br-Ph
1649	3-F	Me	2-SO2NH2-Ph
1650	3-F	Me	2-SO2NHMe-Ph
1651	3-F	Me	2-CF3-Ph
1652	3-F	Me	2-OMe-Ph
1653	3-F	Me	2-SMe-Ph
1654	3-F	Me	2-SOMe-Ph
1655	3-F	Me	2-SO2Me-Ph
1656	3-F	Me	2-OH-Ph
1657	3-F	Me	2-CH2OH-Ph
1658	3-F	Me	2-CHOHMe-Ph
1659	3-F	Me	2-COH(Me)2-Ph
1660	3-F	Me	2-Me-Ph
1661	3-F	Me	2-Et-Ph
1662	3-F	Me	2-iPr-Ph
1663	3-F	Me	2-tBu-Ph
1664	3-F	Me	2-CH2CO2Me-Ph
1665	3-F	Me	2-(1-piperidinyl)-Ph
1666	3-F	Me	2-(1-pyrrolidinyl)-Ph
1667	3-F	Me	2-(2-imidazolyl)-Ph
1668	3-F	Me	2-(1-imidazolyl)-Ph
1669	3-F	Me	2-(2-thiazolyl)-Ph
1670	3-F	Me	2-(3-pyrazolyl)-Ph
1671	3-F	Me	2-(1-pyrazolyl)-Ph
1672	3-F	Me	2-(5-Me-1-tetrazoly1)-Ph
1673	3-F	Me	2-(1-Me-5-tetrazolyl)-Ph
1674	3-F	Me	2-(2-pyridyl)-Ph
1675	3-F	Me	2-(2-thienyl)-Ph
1676	3-F	Me	2-(2-furanyl)-Ph
1677	3-F	Me	2,4-diF-Ph
1678	3-F	Me	2,5-diF-Ph
1679	3-F	Me	2,6-diF-Ph
1680	3-F	Me	3,4-diF-Ph
1681	3-F	Me	3,5-diF-Ph
1682	3-F	Me	2,4-diCl-Ph
1683	3-F	Me	2,5-diCl-Ph
1684	3-F	Me	2,6-diCl-Ph
1685	3-F	Me	3,4-diCl-Ph
1686	3-F	Me	3,5-diCl-Ph
1687	3-F	Me	3,4-diCF3-Ph
1688	3-F	Me	3,5-diCF3-Ph

1689	3-F	Me	E Cl 2 MaQ Db
1690	3-F	Me	5-Cl-2-MeO-Ph
1691	3-F		5-C1-2-Me-Ph 2-F-5-Me-Ph
	3-F	Me	
1692		Me	3-F-5-morpholino-Ph
1693	3-F	Me	3,4-OCH2O-Ph
1694	3-F	Me	3,4-OCH2CH2O-Ph
1695	3-F	Me	2-MeO-5-CONH2-Ph
1696	3-F	Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1697	3-F	Me	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
1698	3-F	Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
1699	3-F	Me	1-naphthyl
1700	3-F	Me	2-naphthyl
1701	3-F	Me	2-thienyl
1702	3-F	Me	3-thienyl
1703	3-F	Me	2-furanyl
1704	3-F	Me	3-furanyl
1705	3-F	Me	2-pyridyl
1706	3-F	Me	3-pyridyl
1707	3-F	Me	4-pyridyl
1708	3-F	Me	2-indolyl
1709	3-F	Me	3-indolyl
1710	3-F	Me	5-indolyl
1711	3-F	Me	6-indolyl
1712	3-F	Me	3-indazolyl
1713	3-F	Me	5-indazolyl-
1714	3-F	Me	6-indazolyl
1715	3-F	Me	2-imidazolyl
1716	3-F	Me	3-isoxazoyl
1717	3-F	Me	3-pyrazolyl
1718	3-F	Me	2-thiadiazolyl
1719	3-F	Me	2-thiazolyl
1720	3-F	Me	5-Ac-4-Me-2-thiazolyl
1721	3-F	Me	5-tetrazolyl
1722	3-F	Me	2-benzimidazolyl
1723	3-F	Me	5-benzimidazolyl
1724	3-F	Me	2-benzothiazolyl
1725	3-F	Me	5-benzothiazolyl
1726	3-F	Me	2-benzoxazolyl
1727	3-F	Me	5-benzoxazolyl
1728	3-F	Me	1-adamantyl
1729	3-F	Me	2-adamantyl
1730	3-F	Me Me	i-Pr
1731	3-F	Me	
1732	3-F	Me Me	t-Bu
1733	3-F		C-Hex
		Me	CH2CH2OMe
1734	3-F	Me	CH2CONH2
1735	3-F	Me Me	CH2CO2Me
1736	3-F	Me	CH (CH2Ph) CO2Me
1737	3-F	Me	CH2CH2NMe2
1738	3-F	Me	benzyl
1739	3-F	Me	phenethyl

1740 3-F Me 2-(morpholin-1-yl)-Et 1741 3-F 2-F-Et Ph 1742 3-F 2-F-Et 3-CN-Ph 1743 3-F 2-F-Et 3-COMe-Ph 1744 3-F 2-F-Et 3-COMH2-Ph 1745 3-F 2-F-Et 3-CONH2-Ph 1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-CONHMe-Ph 1748 3-F 2-F-Et 3-SONHMe-Ph 1749 3-F 2-F-Et 3-SONH2-Ph 1750 3-F 2-F-Et 3-SONH2-Ph 1751 3-F 2-F-Et 3-SONH4-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SOME-Ph 1755 3-F 2-F-Et 3-SOME-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph	
1742 3-F 2-F-Et 3-CN-Ph 1743 3-F 2-F-Et 3-COMe-Ph 1744 3-F 2-F-Et 3-COMH2-Ph 1745 3-F 2-F-Et 3-CONHMe-Ph 1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-SC1-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SOMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1757 3-F 2-F-Et 3-CHOHMe-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-CHOHMe-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 <t< td=""><td></td></t<>	
1743 3-F 2-F-Et 3-COMe-Ph 1744 3-F 2-F-Et 3-COMe-Ph 1745 3-F 2-F-Et 3-CONH2-Ph 1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-C1-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SOMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 <	
1744 3-F 2-F-Et 3-CO2Me-Ph 1745 3-F 2-F-Et 3-CONH2-Ph 1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-Br-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-Et-Ph	
1745 3-F 2-F-Et 3-CONH2-Ph 1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-C1-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SOMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-Et-Ph	
1746 3-F 2-F-Et 3-CONHMe-Ph 1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-C1-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-ipr-Ph	
1747 3-F 2-F-Et 3-F-Ph 1748 3-F 2-F-Et 3-Cl-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-OMe-Ph 1753 3-F 2-F-Et 3-SMe-Ph 1754 3-F 2-F-Et 3-SO2Me-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1748 3-F 2-F-Et 3-C1-Ph 1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SOMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1749 3-F 2-F-Et 3-Br-Ph 1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1750 3-F 2-F-Et 3-SO2NH2-Ph 1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1751 3-F 2-F-Et 3-SO2NHMe-Ph 1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SO2Me-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-CH2OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1759 3-F 2-F-Et 3-COH (Me) 2-Ph 1760 3-F 2-F-Et 3-Me-Ph 1761 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-ipr-Ph	
1752 3-F 2-F-Et 3-CF3-Ph 1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-OH-Ph 1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CHOHMe-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1753 3-F 2-F-Et 3-OMe-Ph 1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-OM-Ph 1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1754 3-F 2-F-Et 3-SMe-Ph 1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-SO2Me-Ph 1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1755 3-F 2-F-Et 3-SOMe-Ph 1756 3-F 2-F-Et 3-SO2Me-Ph 1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1756 3-F 2-F-Et 3-SO2Me-Ph 1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1757 3-F 2-F-Et 3-OH-Ph 1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1758 3-F 2-F-Et 3-CH2OH-Ph 1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1759 3-F 2-F-Et 3-CHOHMe-Ph 1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1760 3-F 2-F-Et 3-COH (Me) 2-Ph 1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1761 3-F 2-F-Et 3-Me-Ph 1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1762 3-F 2-F-Et 3-Et-Ph 1763 3-F 2-F-Et 3-iPr-Ph	
1763 3-F 2-F-Et 3-iPr-Ph	
	_
1764 3-F 2-F-Et 3-tBu-Ph	
1765 3-F 2-F-Et 3-CH2CO2Me-Ph	
1766 3-F 2-F-Et 3-(1-piperidinyl)-Ph	
1767 3-F 2-F-Et 3-(1-pyrrolidinyl)-Ph	
1768 3-F 2-F-Et 3-(2-imidazoly1)-Ph	
1769 3-F 2-F-Et 3-(1-imidazoly1)-Ph	
1770 3-F 2-F-Et 3-(2-thiazoly1)-Ph	
1771 3-F 2-F-Et 3-(3-pyrazolyl)-Ph	
1772 3-F 2-F-Et 3-(1-pyrazolyl)-Ph	
1773 3-F 2-F-Et 3-(5-Me-1-tetrazoly1)-Ph	
1774 3-F 2-F-Et 3-(1-Me-5-tetrazolyl)-Ph	
1775 3-F 2-F-Et 3-(2-pyridyl)-Ph	
1776 3-F 2-F-Et 3-(2-thienyl)-Ph	
1777 3-F 2-F-Et 3-(2-furanyl)-Ph	
1778 3-F 2-F-Et 4-CN-Ph]
1779 3-F 2-F-Et 4-COMe-Ph	
1780 3-F 2-F-Et 4-CO2Me-Ph]
1781 3-F 2-F-Et 4-CONH2-Ph	
1782 3-F 2-F-Et 4-CONHMe-Ph	
1783 3-F 2-F-Et 4-CONHPh-Ph	
1784 3-F 2-F-Et 4-F-Ph	
1785 3-F 2-F-Et 4-Cl-Ph	
1786 3-F 2-F-Et 4-Br-Ph	
1787 3-F 2-F-Et 4-SO2NH2-Ph	$\neg \neg$
1788 3-F 2-F-Et 4-SO2NHMe-Ph	
1789 3-F 2-F-Et 4-CF3-Ph	
1790 3-F 2-F-Et 4-OMe-Ph	

		T	
1791	3-F	2-F-Et	4-SMe-Ph
1792	3-F	2-F-Et	4-SOMe-Ph
1793	3-F	2-F-Et	4-SO2Me-Ph
1794	3-F	2-F-Et	4-OH-Ph
1795	3-F	2-F-Et	4-CH2OH-Ph
1796	3-F	2-F-Et	4-CHOHMe-Ph
1797	3-F	2-F-Et	4-COH(Me)2-Ph
1798	3-F	2-F-Et	4-Me-Ph
1799	3-F	2-F-Et	4-Et-Ph
1800	3-F	2-F-Et	4-iPr-Ph
1801	3-F	2-F-Et	4-tBu-Ph
1802	3-F	2-F-Et	4-CH2CO2Me-Ph
1803	3-F	2-F-Et	4-(1-piperidinyl)-Ph
1804	3-F	2-F-Et	4-(1-pyrrolidinyl)-Ph
1805	3-F	2-F-Et	4-(2-imidazolyl)-Ph
1806	3-F	2-F-Et	4-(1-imidazolyl)-Ph
1807	3-F	2-F-Et	4-(2-thiazoly1)-Ph
1808	3-F	2-F-Et	4-(3-pyrazolyl)-Ph
1809	3-F	2-F-Et	4-(1-pyrazolyl)-Ph
1810	3-F	2-F-Et	4-(5-Me-1-tetrazolyl)-Ph
1811	3-F	2-F-Et	4-(1-Me-5-tetrazolyl)-Ph
1812	3-F	2-F-Et	4-(2-pyridyl)-Ph
1813	3-F	2-F-Et	4-(2-thienyl)-Ph
1814	3-F	2-F-Et	4-(2-furanyl)-Ph
1815	3-F	2-F-Et	2-CN-Ph
1816	3-F	2-F-Et	2-COMe-Ph
1817	3-F	2-F-Et	2-CO2Me-Ph
1818	3-F	2-F-Et	2-CONH2-Ph
1819	3-F	2-F-Et	2-CONHMe-Ph
1820	3-F	2-F-Et	2-F-Ph
1821	3-F	2-F-Et	2-C1-Ph
1822	3-F	2-F-Et	2-Br-Ph
1823	3-F	2-F-Et	2-SO2NH2-Ph
1824	3-F	2-F-Et	2-SO2NHMe-Ph
1825	3-F	2-F-Et	2-CF3-Ph
1826	3-F	2-F-Et	2-OMe-Ph
1827	3-F	2-F-Et	2-SMe-Ph
1828	3-F	2-F-Et	2-SOMe-Ph
1829	3-F	2-F-Et	2-SO2Me-Ph
1830	3-F	2-F-Et	2-OH-Ph
1831	3-F	2-F-Et	2-CH2OH-Ph
1832	3-F	2-F-Et	2-CHOHMe-Ph
1833	3-F	2-F-Et	2-COH (Me) 2-Ph
1834	3-F	2-F-Et	2-Me-Ph
1835	3-F	2-F-Et	2-Et-Ph
1836	3-F	2-F-Et	2-iPr-Ph
1837	3-F	2-F-Et	2-tBu-Ph
1838	3-F	2-F-Et	2-CH2CO2Me-Ph
1839	3-F	2-F-Et	2-(1-piperidinyl)-Ph
1840	3-F	2-F-Et	2-(1-pyrrolidinyl)-Ph
1841	3-F	2-F-Et	2-(1-pyliolidinyl)-Ph 2-(2-imidazolyl)-Ph
7037	2 - F	2-r-BC	Z-(Z-IMIGAZOIYI)-PII

1842	2 12	2 2 2+	2 /1 :=: daga lasty ph
	3-F	2-F-Et	2-(1-imidazoly1)-Ph
1843	3-F	2-F-Et	2-(2-thiazolyl)-Ph
1844	3-F	2-F-Et	2-(3-pyrazolyl)-Ph
1845	3-F	2-F-Et	2-(1-pyrazolyl)-Ph
1846	3-F	2-F-Et	2-(5-Me-1-tetrazolyl)-Ph
1847	3-F	2-F-Et	2-(1-Me-5-tetrazoly1)-Ph
1848	3-F	2-F-Et	2-(2-pyridyl)-Ph
1849	3-F	2-F-Et	2-(2-thienyl)-Ph
1850	3-F	2-F-Et	2-(2-furany1)-Ph
1851	3-F	2-F-Et	2,4-diF-Ph
1852	3-F	2-F-Et	2,5-diF-Ph
1853	3-F	2-F-Et	2,6-diF-Ph
1854	3-F	2-F-Et	3,4-diF-Ph
1855	3-F	2-F-Et	3,5-diF-Ph
1856	3-F	2-F-Et	2,4-diCl-Ph
1857	3-F	2-F-Et	2,5-diCl-Ph
1858	3-F	2-F-Et	2,6-diCl-Ph
1859	3-F	2-F-Et	3,4-diCl-Ph
1860	3-F	2-F-Et	3,5-diCl-Ph
1861	3-F	2-F-Et	3,4-diCF3-Ph
1862	3-F	2-F-Et	3,5-diCF3-Ph
1863	3-F	2-F-Et	5-Cl-2-MeO-Ph
1864	3-F	2-F-Et	5-Cl-2-Me-Ph
1865	3-F	2-F-Et	2-F-5-Me-Ph
1866	3-F	2-F-Et	3-F-5-morpholino-Ph
1867	3-F	2-F-Et	3,4-OCH2O-Ph
1868	3-F	2-F-Et	3,4-OCH2CH2O-Ph
1869	3-F	2-F-Et	2-MeO-5-CONH2-Ph
1870	3-F	2-F-Et	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1871	3-F	2-F-Et	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1872	3-F	2-F-Et	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1873	3-F	2-F-Et	1-naphthyl
1874	3-F	2-F-Et	2-naphthyl
1875	3-F	2-F-Et	2-thienyl
1876	3-F	2-F-Et	3-thienyl
1877	3-F	2-F-Et	2-furanyl
1878	3-F	2-F-Et	3-furanyl
1879	3-F	2-F-Et	2-pyridyl
1880	3-F	2-F-Et	3-pyridyl
1881	3-F	2-F-Et	4-pyridyl
1882	3-F	2-F-Et	2-indolyl
1883	3-F	2-F-Et	3-indolyl
1884	3-F	2-F-Et	5-indoly1
1885	3-F	2-F-Et	6-indolyl
1886	3-F	2-F-Et	3-indazolyl
1887	3-F	2-F-Et	5-indazolyl
1888	3-F	2-F-Et	6-indazolyl
1889	3-F	2-F-Et	2-imidazolyl
1890	3-F	2-F-Et	3-isoxazoyl
1891	3-F	2-F-Et	3-pyrazolyl
1892	3-F	2-F-Et	2-thiadiazolyl

1003	T 3 E	1 0 5 55	<u> </u>
1893	3-F	2-F-Et	2-thiazolyl
1894	3-F	2-F-Et	5-Ac-4-Me-2-thiazolyl
1895	3-F	2-F-Et	5-tetrazolyl
1896	3-F	2-F-Et	2-benzimidazolyl
1897	3-F	2-F-Et	5-benzimidazolyl
1898	3-F	2-F-Et	2-benzothiazolyl
1899	3-F	2-F-Et	5-benzothiazolyl
1900	3-F	2-F-Et	2-benzoxazolyl
1901	3-F	2-F-Et	5-benzoxazolyl
1902	3-F	2-F-Et	1-adamantyl
1903	3-F	2-F-Et	2-adamantyl
1904	3-F	2-F-Et	i-Pr
1905	3-F	2-F-Et	t-Bu
1906	3-F	2-F-Et	c-Hex
1907	3-F	2-F-Et	CH2CH2OMe
1908	3-F	2-F-Et	CH2CONH2
1909	3-F	2-F-Et	CH2CO2Me
1910	3-F	2-F-Et	CH(CH2Ph)CO2Me
1911	3-F	2-F-Et	CH2CH2NMe2
1912	3-F	2-F-Et	benzyl
1913	3-F	2-F-Et	phenethyl
1914	3-F	2-F-Et	2-(morpholin-1-yl)-Et
1915	3-F	CO2Me	Ph
1916	3-F	CO2Me	3-CN-Ph
1917	3-F	CO2Me	3-COMe-Ph
1918	3-F	CO2Me	3-CO2Me-Ph
1919	3-F	CO2Me	3-CONH2-Ph
1920	3-F	CO2Me	3-CONHMe-Ph
1921	3-F	CO2Me	3-F-Ph
1922	3-F	CO2Me	3-Cl-Ph
1923	3-F	CO2Me	3-Br-Ph
1924	3-F	CO2Me	3-SO2NH2-Ph
1925	3-F	CO2Me	3-SO2NHMe-Ph
1926	3-F	CO2Me	3-CF3-Ph
1927	3-F	CO2Me	3-OMe-Ph
1928	3-F	CO2Me	3-SMe-Ph
1929	3-F	CO2Me	3-SOMe-Ph
1930	3-F	CO2Me	3-SO2Me-Ph
1931	3-F	CO2Me	3-OH-Ph
1932	3-F	CO2Me	3-CH2OH-Ph
1933	3-F	CO2Me	3-CHOHMe-Ph
1934	3-F	CO2Me	3-COH (Me) 2-Ph
1935	3-F	CO2Me	3-Me-Ph
1936	3-F	CO2Me	3-Et-Ph
1937	3-F	CO2Me	3-iPr-Ph
1938	3-F	CO2Me	3-tBu-Ph
1939	3-F	CO2Me	3-CH2CO2Me-Ph
1940	3-F	CO2Me	3-(1-piperidinyl)-Ph
1941	3-F	CO2Me	3-(1-piperidiny1)-Ph
1942	3-F	CO2Me	3-(1-pyrrolldlhy1)-Ph 3-(2-imidazoly1)-Ph
1943	3-F	CO2Me	
1747	2-5	COZME	3-(1-imidazoly1)-Ph

1044	T 3 5	T 00015-	2 (0 12 :
1944	3-F	CO2Me	3-(2-thiazolyl)-Ph
1945	3-F	CO2Me	3-(3-pyrazoly1)-Ph
1946	3-F	CO2Me	3-(1-pyrazolyl)-Ph
1947	3-F	CO2Me	3-(5-Me-1-tetrazolyl)-Ph
1948	3-F	CO2Me	3-(1-Me-5-tetrazolyl)-Ph
1949	3-F	CO2Me	3-(2-pyridyl)-Ph
1950	3-F	CO2Me	3-(2-thienyl)-Ph
1951	3-F	CO2Me	3-(2-furanyl)-Ph
1952	3-F	CO2Me	4-CN-Ph
1953	3-F	CO2Me	4-COMe-Ph
1954	3-F	CO2Me	4-CO2Me-Ph
1955	3-F	CO2Me	4-CONH2-Ph
1956	3-F	CO2Me	4-CONHMe-Ph
1957	3-F	CO2Me	4-CONHPh-Ph
1958	3-F	CO2Me	4-F-Ph
1959	3-F	CO2Me	4-Cl-Ph
1960	3-F	CO2Me	4-Br-Ph
1961	3-F	CO2Me	4-SO2NH2-Ph
1962	3-F	CO2Me	4-SO2NHMe-Ph
1963	3-F	CO2Me	4-CF3-Ph
1964	3-F	CO2Me	4-OMe-Ph
1965	3-F	CO2Me	4-SMe-Ph
1966	3-F	CO2Me	4-SOMe-Ph
1967	3-F	CO2Me	4-SO2Me-Ph
1968	3-F	CO2Me	4-OH-Ph
1969	3-F	CO2Me	4-CH2OH-Ph
1970	3-F	CO2Me	4-CHOHMe-Ph
1971	3-F	CO2Me	4-COH(Me)2-Ph
1972	3-F	CO2Me	4-Me-Ph
1973	3-F	CO2Me	4-Et-Ph
1974	3-F	CO2Me	4-iPr-Ph
1975	3-F	CO2Me	4-tBu-Ph
1976	3-F	CO2Me	4-CH2CO2Me-Ph
1977	3-F	CO2Me	4-(1-piperidinyl)-Ph
1978	3-F	CO2Me	4-(1-pyrrolidiny1)-Ph
1979	3-F	CO2Me	4-(2-imidazolyl)-Ph
1980	3-F	CO2Me	4-(1-imidazolyl)-Ph
1981	3-F	CO2Me	4-(2-thiazolyl)-Ph
1982	3-F	CO2Me	4-(3-pyrazolyl)-Ph
1983	3-F	CO2Me	4-(1-pyrazolyl)-Ph
1984	3-F	CO2Me	4-(5-Me-1-tetrazoly1)-Ph
1985	3-F	CO2Me	4-(1-Me-5-tetrazoly1)-Ph
1986	3-F	CO2Me	4-(2-pyridyl)-Ph
1987	3-F	CO2Me	4-(2-thienyl)-Ph
1988	3-F	CO2Me	4-(2-furanyl)-Ph
1989	3-F	CO2Me	2-CN-Ph
1990	3-F	CO2Me	2-CN-Ph
1991	3-F	CO2Me CO2Me	
1992	3-F		2-CO2Me-Ph
		CO2Me	2-CONH2-Ph
1993	3-F	CO2Me	2-CONHMe-Ph
1994	3-F	CO2Me	2-F-Ph

1995	3-F	CO2Me	2-Cl-Ph
1996	3-F	CO2Me	2-Br-Ph
1997	3-F	CO2Me	2-SO2NH2-Ph
1998	3-F	CO2Me	2-SO2NHMe-Ph
1999	3-F	CO2Me	2-CF3-Ph
2000	3-F	CO2Me	2-OMe-Ph
2001	3-F	CO2Me	2-SMe-Ph
2002	3-F	CO2Me	2-SOMe-Ph
2003	3-F	CO2Me	2-SO2Me-Ph
2004	3-F	CO2Me	2-OH-Ph
2005	3-F	CO2Me	2-CH2OH-Ph
2006	3-F	CO2Me	2-CHOHMe-Ph
2007	3-F	CO2Me	2-COH (Me) 2-Ph
2008	3-F	CO2Me	2-Me-Ph
2009	3-F	CO2Me	2-Et-Ph
2010	3-F	CO2Me	2-iPr-Ph
2011	3-F	CO2Me	2-tBu-Ph
2012	3-F	CO2Me	2-CH2CO2Me-Ph
2013	3-F	CO2Me	2-(1-piperidinyl)-Ph
2014	3-F	CO2Me	2-(1-pyrrolidinyl)-Ph
2015	3-F	CO2Me	2-(2-imidazolyl)-Ph
2016	3-F	CO2Me	2-(1-imidazolyl)-Ph
2017	3-F	CO2Me	2-(2-thiazolyl)-Ph
2018	3-F	CO2Me	2-(3-pyrazolyl)-Ph
2019	3-F	CO2Me	2-(1-pyrazolyl)-Ph
2020	3-F	CO2Me	2-(5-Me-1-tetrazoly1)-Ph
2021	3-F	CO2Me	2-(1-Me-5-tetrazolyl)-Ph
2022	3-F	CO2Me	2-(2-pyridyl)-Ph
2023	3-F	CO2Me	2-(2-thienyl)-Ph
2024	3-F	CO2Me	2-(2-furanyl)-Ph
2025	3-F	CO2Me	2,4-diF-Ph
2026	3-F	CO2Me	2,5-diF-Ph
2027	3-F	CO2Me	2,6-diF-Ph
2028	3-F	CO2Me	3,4-diF-Ph
2029	3-F	CO2Me	3,5-diF-Ph
2030	3-F	CO2Me	2,4-diCl-Ph
2031	3-F	CO2Me	2,5-diCl-Ph
2032	3-F	CO2Me	2,6-diCl-Ph
2033	3-F	CO2Me	3,4-diCl-Ph
2034	3-F	CO2Me	3,5-diCl-Ph
2035	3-F	CO2Me	3,4-diCF3-Ph
2036	3-F	CO2Me	3,5-diCF3-Ph
2037	3-F	CO2Me	5-C1-2-MeO-Ph
2038	3-F	CO2Me	5-C1-2-Me-Ph
2039	3-F	CO2Me	2-F-5-Me-Ph
2040	3-F	CO2Me	3-F-5-morpholino-Ph
2041	3-F	CO2Me	3,4-OCH2O-Ph
2042	3-F	CO2Me	3,4-OCH2CH2O-Ph
2043	3-F	CO2Me	2-MeO-5-CONH2-Ph
2044	3-F	CO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
2045	3-F	CO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph

2046	3-F	CO2Me	3_CONTUR E /1 Mo E totrogolish Db
2046	3-F		3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
2047	3-F	CO2Me	1-naphthyl
	3-F	CO2Me	2-naphthyl
2049	3-F	CO2Me	2-thienyl
2050		CO2Me	3-thienyl
2051	3-F	CO2Me	2-furanyl
2052	3-F	CO2Me_	3-furanyl
2053	3-F	CO2Me	2-pyridyl
2054	3-F	CO2Me	3-pyridyl
2055	3-F	CO2Me	4-pyridyl
2056	3-F	CO2Me	2-indolyl
2057	3-F	CO2Me	3-indolyl
2058	3-F	CO2Me	5-indolyl
2059	3-F	CO2Me	6-indolyl
2060	3-F	CO2Me	3-indazolyl
2061	3-F	CO2Me	5-indazolyl
2062	3-F	CO2Me	6-indazolyl
2063	3-F	CO2Me	2-imidazolyl
2064	3-F	CO2Me	3-isoxazoyl
2065	3-F	CO2Me	3-pyrazolyl
2066	3-F	_CO2Me	2-thiadiazolyl
2067	3-F	CO2Me	2-thiazolyl
2068	3-F	CO2Me	5-Ac-4-Me-2-thiazolyl
2069	3-F	CO2Me	5-tetrazolyl
2070	3-F	CO2Me	2-benzimidazolyl
2071	3-F	CO2Me	5-benzimidazolyl
2072	3-F	CO2Me	2-benzothiazolyl
2073	3-F	CO2Me	5-benzothiazolyl
2074	3-F	CO2Me	2-benzoxazolyl
2075	3-F	CO2Me	5-benzoxazolyl
2076	3-F	CO2Me	1-adamantyl
2077	3-F	CO2Me	2-adamantyl
2078	3-F	CO2Me	i-Pr
2079	3-F	CO2Me	t-Bu
2080	3-F	CO2Me	c-Hex
2081	3-F	CO2Me	CH2CH2OMe
2082	3-F	CO2Me	CH2CONH2
2083	3-F	CO2Me	CH2CO2Me
2084	3-F	CO2Me	CH(CH2Ph)CO2Me
2085	3-F	CO2Me	CH2CH2NMe2
2086	3-F	CO2Me	benzyl
2087	3-F	CO2Me	phenethyl
2088	3-F	CO2Me	2-(morpholin-1-yl)-Et
2089	3-F	Ac	Ph
2090	3-F	Ac	3-CN-Ph
2091	3-F	Ac	3-COMe-Ph
2092	3-F	AC	3-CO2Me-Ph
2093	3-F	Ac	3-CONH2-Ph
2094	3-F	Ac	3-CONHMe-Ph
2095	3-F	Ac	3-F-Ph
2096	3-F	Ac	3-F-PH 3-C1-Ph
	J − F	AC	2-CT-EII

2097	3-F	Ac	3-Br-Ph
2098	3-F	Ac	3-SO2NH2-Ph
2099	3-F	Ac	3-SO2NHZ-FH
2100	3-F	Ac	3-SOZNAME-FII 3-CF3-Ph
2101	3-F	Ac	3-OMe-Ph
2102	3-F	Ac	3-SMe-Ph
2102	3-F		
2103	3-F	Ac Ac	3-SOMe-Ph
2104	3-F	Ac	3-S02Me-Ph
	3-F	Ac	3-OH-Ph
2106		Ac	3-CH2OH-Ph
2107	3-F	Ac	3-CHOHMe-Ph
2108	3-F	Ac	3-COH (Me) 2-Ph
2109	3-F	Ac	3-Me-Ph
2110	3-F	Ac	3-Et-Ph
2111	3-F	Ac	3-iPr-Ph
2112	3-F	Ac	3-tBu-Ph
2113	3-F	Ac	3-CH2CO2Me-Ph
2114	3-F	Ac	3-(1-piperidinyl)-Ph
2115	3-F	Ac	3-(1-pyrrolidinyl)-Ph
2116	3-F	Ac	3-(2-imidazolyl)-Ph
2117	3-F	Ac	3-(1-imidazolyl)-Ph
2118	3-F	Ac	3-(2-thiazolyl)-Ph
2119	3-F	Ac	3-(3-pyrazolyl)-Ph
2120	3-F	Ac	3-(1-pyrazolyl)-Ph
2121	3-F	Ac	3-(5-Me-1-tetrazoly1)-Ph
2122	3-F	Ac	3-(1-Me-5-tetrazolyl)-Ph
2123	3-F	Ac	3-(2-pyridyl)-Ph
2124 2125	3-F	Ac	3-(2-thienyl)-Ph
	3-F	Ac	3-(2-furanyl)-Ph
2126		Ac	4-CN-Ph
2127	3-F	Ac	4-COMe-Ph
2128	3-F	Ac	4-CO2Me-Ph
2129 2130	3-F	Ac	4-CONH2-Ph
2131	3-F	Ac	4-CONHMe-Ph
	3-F	Ac	4-CONHPh-Ph
2132	3-F	Ac	4-F-Ph
2133 2134	3-F	Ac	4-Cl-Ph
2134	3-F	Ac	4-Br-Ph
2136	3-F	Ac	4-SO2NH2-Ph
	3-F	Ac	4-SO2NHMe-Ph
2137	3-F	Ac	4-CF3-Ph
2138	3-F	Ac	4-OMe-Ph
2139	3-F	Ac	4-SMe-Ph
2140	3-F	Ac	4-SOMe-Ph
2141	3-F	Ac	4-SO2Me-Ph
2142	3-F	Ac	4-OH-Ph
2143	3-F	Ac	4-CH2OH-Ph
2144	3-F	Ac	4-CHOHMe-Ph
2145	3-F	Ac	4-COH (Me) 2-Ph
2146	3-F	Ac	4-Me-Ph
2147	3-F	Ac	4-Et-Ph

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2148	3-F	Ac	4-iPr-Ph
2149	3-F	Ac	4-tBu-Ph
2150	3-F	Ac	4-CH2CO2Me-Ph
2151	3-F	Ac	4-(1-piperidinyl)-Ph
2152	3-F	Ac	4-(1-pyrrolidinyl)-Ph
2153	3-F	Ac	4-(2-imidazolyl)-Ph
2154	3-F	Ac	4-(1-imidazolyl)-Ph
2155	3-F	Ac	4-(2-thiazoly1)-Ph
2156	3-F	Ac	4-(3-pyrazolyl)-Ph
2157	3-F	Ac	4-(1-pyrazolyl)-Ph
2158	3-F	Ac	4-(5-Me-1-tetrazolyl)-Ph
2159	3-F	Ac	4-(1-Me-5-tetrazolyl)-Ph
2160	3-F	Ac	4-(2-pyridyl)-Ph
2161	3-F	Ac	4-(2-thienyl)-Ph
2162	3-F	Ac	4-(2-furanyl)-Ph
2163	3-F	Ac	2-CN-Ph
2164	3-F	Ac	2-COMe-Ph
2165	3-F	Ac	2-CO2Me-Ph
2166	3-F	Ac	2-CONH2-Ph
2167	3-F	Ac	2-CONHMe-Ph
2168	3-F	Ac	2-F-Ph
2169	3-F	Ac	2-Cl-Ph
2170	3-F	Ac	2-Br-Ph
2171	3-F	Ac	2-SO2NH2-Ph
2172	3-F	Ac	2-SO2NHMe-Ph
2173	3-F	Ac	2-CF3-Ph
2174	3-F	Ac	2-OMe-Ph
2175	3-F	Ac	2-SMe-Ph
2176	3-F	Ac	2-SOMe-Ph
2177	3-F	Ac	2-SO2Me-Ph
2178	3-F	Ac	2-OH-Ph
2179	3-F	Ac	2-CH2OH-Ph
2180	3-F	Ac	2-CHOHMe-Ph
2181	3-F	Ac	2-COH(Me)2-Ph
2182	3-F	Ac	2-Me-Ph
2183	3-F	Ac	2-Et-Ph
2184	3-F	Ac	2-iPr-Ph
2185	3-F	Ac	2-tBu-Ph
2186	3-F	Ac	2-CH2CO2Me-Ph
2187	3-F	Ac	2-(1-piperidinyl)-Ph
2188	3-F	Ac	2-(1-pyrrolidinyl)-Ph
2189	3-F	Ac	2-(2-imidazoly1)-Ph
2190	3-F	Ac	2-(1-imidazolyl)-Ph
2191	3-F	Ac	2-(2-thiazolyl)-Ph
2192	3-F	Ac	2-(3-pyrazolyl)-Ph
2193	3-F	Ac	2-(1-pyrazoly1)-Ph
2194	3-F	Ac	2-(5-Me-1-tetrazolyl)-Ph
2195	3-F	Ac	2-(1-Me-5-tetrazolyl)-Ph
2196	3-F	Ac	2-(2-pyridyl)-Ph
2197	3-F	Ac	2-(2-thienyl)-Ph
2198	3-F	Ac	2-(2-furanyl)-Ph
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2225 3-F Ac 2-furanyl 2226 3-F Ac 3-furanyl 2227 3-F Ac 2-pyridyl 2228 3-F Ac 3-pyridyl 2229 3-F Ac 4-pyridyl 2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 6-indolyl 2233 3-F Ac 3-indazolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 3-indazolyl 2236 3-F Ac 5-indazolyl 2237 3-F Ac 6-indazolyl 2238 3-F Ac 2-imidazolyl 2239 3-F Ac 3-jeyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiadiazolyl 2242 3-F Ac 2-thiadiazolyl 2243 3-F				
2226 3-F Ac 3-furanyl 2227 3-F Ac 2-pyridyl 2228 3-F Ac 3-pyridyl 2229 3-F Ac 4-pyridyl 2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 6-indolyl 2233 3-F Ac 3-indazolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiadiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243				
2227 3-F Ac 2-pyridyl 2228 3-F Ac 3-pyridyl 2229 3-F Ac 4-pyridyl 2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 6-indolyl 2233 3-F Ac 3-indazolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2243 3-F Ac 2-benzimidazolyl 2245 3-F </td <td></td> <td></td> <td></td> <td></td>				
2228 3-F Ac 3-pyridyl 2229 3-F Ac 4-pyridyl 2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 6-indolyl 2233 3-F Ac 3-indazolyl 2234 3-F Ac 5-indazolyl 2235 3-F Ac 6-indazolyl 2236 3-F Ac 2-imidazolyl 2237 3-F Ac 3-isoxazoyl 2238 3-F Ac 3-pyrazolyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246			}	
2229 3-F Ac 4-pyridyl 2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 6-indolyl 2233 3-F Ac 3-indazolyl 2234 3-F Ac 5-indazolyl 2235 3-F Ac 6-indazolyl 2236 3-F Ac 2-imidazolyl 2237 3-F Ac 3-isoxazoyl 2238 3-F Ac 3-pyrazolyl 2239 3-F Ac 2-thiadiazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 5-benzothiazolyl				
2230 3-F Ac 2-indolyl 2231 3-F Ac 3-indolyl 2232 3-F Ac 5-indolyl 2233 3-F Ac 6-indolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2241 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl <t< td=""><td></td><td></td><td></td><td></td></t<>				
2231 3-F Ac 3-indolyl 2232 3-F Ac 5-indolyl 2233 3-F Ac 6-indolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2241 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2243 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2245 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2232 3-F Ac 5-indolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2243 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl	_			
2233 3-F Ac 6-indolyl 2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2234 3-F Ac 3-indazolyl 2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2235 3-F Ac 5-indazolyl 2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2236 3-F Ac 6-indazolyl 2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2237 3-F Ac 2-imidazolyl 2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 2-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2238 3-F Ac 3-isoxazoyl 2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2239 3-F Ac 3-pyrazolyl 2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2240 3-F Ac 2-thiadiazolyl 2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2241 3-F Ac 2-thiazolyl 2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2242 3-F Ac 5-Ac-4-Me-2-thiazolyl 2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2243 3-F Ac 5-tetrazolyl 2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2244 3-F Ac 2-benzimidazolyl 2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2245 3-F Ac 5-benzimidazolyl 2246 3-F Ac 2-benzothiazolyl 2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
22463-FAc2-benzothiazolyl22473-FAc5-benzothiazolyl22483-FAc2-benzoxazolyl				
2247 3-F Ac 5-benzothiazolyl 2248 3-F Ac 2-benzoxazolyl				
2248 3-F Ac 2-benzoxazolyl			Ac_	2-benzothiazolyl
		3-F	Ac	5-benzothiazolyl
0040 2 = 1	2248	3-F	Ac	2-benzoxazolyl
2249 3-F AC 5-benzoxazolyl	2249	3-F	Ac	5-benzoxazolyl

2250	3-F	Ac	1-adamantyl
2251	3-F	Ac	2-adamanty1
2252	3-F	Ac	i-Pr
2253	3-F	Ac	t-Bu
2254	3-F		
2255	3-F	Ac	c-Hex
2256	3-F	Ac	CH2CH2OMe
		Ac	CH2CONH2
2257	3-F	Ac	CH2CO2Me
2258	3-F	Ac	CH (CH2Ph) CO2Me
2259	3-F	Ac	CH2CH2NMe2
2260	3-F	Ac	benzyl
2261	3-F	Ac	phenethyl
2262	3-F	Ac	2-(morpholin-1-yl)-Et
2263	3-F	COtBu	Ph
2264	3-F	COtBu	3-CN-Ph
2265	3-F	COtBu	3-COMe-Ph
2266	3-F	COtBu	3-CO2Me-Ph
2267	3-F	COtBu	3-CONH2-Ph
2268	3-F	COtBu	3-CONHMe-Ph
2269	3-F	COtBu	3-F-Ph
2270	3-F	COtBu	3-C1-Ph
2271	3-F	COtBu	3-Br-Ph
2272	3-F	COtBu	3-SO2NH2-Ph
2273	3-F	COtBu	3-SO2NHMe-Ph
2274	3-F	COtBu	3-CF3-Ph
2275	3-F	COtBu	3-OMe-Ph
2276	3-F	COtBu	3-SMe-Ph
2277	3-F	COtBu	3-SOMe-Ph
2278	3-F	COtBu	3-SO2Me-Ph
2279	3-F	COtBu	3-OH-Ph
2280	3-F	COtBu	3-CH2OH-Ph
2281	3-F	COtBu	3-CHOHMe-Ph
2282	3-F	COtBu	3-COH (Me) 2-Ph
2283	3-F	COtBu	3-Me-Ph
2284	3-F	COtBu	3-Et-Ph
2285	3-F	COtBu	3-iPr-Ph
2286	.3-F	COtBu	3-tBu-Ph
2287	3-F	COtBu	3-CH2CO2Me-Ph
2288	3-F	COtBu	3-(1-piperidinyl)-Ph
2289	3-F	COtBu	3-(1-pyrrolidinyl)-Ph
2290	3-F	COtBu	3-(2-imidazoly1)-Ph
2291	3-F	COtBu	3-(2-imidazolyi)-Ph 3-(1-imidazolyi)-Ph
2292	3-F	COtBu	3-(1-Imidazoiyi)-Ph 3-(2-thiazolyi)-Ph
2293	3-F	COtBu	
2294	3-F		3-(3-pyrazoly1)-Ph
2295	3-F	COtBu	3-(1-pyrazolyl)-Ph
		COtBu	3-(5-Me-1-tetrazoly1)-Ph
2296	3-F	COtBu	3-(1-Me-5-tetrazolyl)-Ph
2297	3-F	COtBu	3-(2-pyridyl)-Ph
2298	3-F	COtBu	3-(2-thienyl)-Ph
2299	3-F	COtBu	3-(2-furanyl)-Ph
2300	3-F	COtBu	4-CN-Ph

			
2301	3-F	COtBu	4-COMe-Ph
2302	3-F	COtBu	4-CO2Me-Ph
2303	3-F	COtBu	4-CONH2-Ph
2304	3-F	COtBu	4-CONHMe-Ph
2305	3-F	COtBu	4-CONHPh-Ph
2306	3-F	COtBu	4-F-Ph
2307	3-F	COtBu	4-Cl-Ph
2308	3-F	COtBu	4-Br-Ph
2309	3-F	COtBu	4-SO2NH2-Ph
2310	3-F	COtBu	4-SO2NHMe-Ph
2311	3-F	COtBu	4-CF3-Ph
2312	3-F	COtBu	4-OMe-Ph
2313	3-F	COtBu	4-SMe-Ph
2314	3-F	COtBu	4-SOMe-Ph
2315	3-F	COtBu	4-SO2Me-Ph
2316	3-F	COtBu	4-OH-Ph
2317	3-F	COtBu	4-CH2OH-Ph
2318	3-F	COtBu	4-CHOHMe-Ph
2319	3-F	COtBu	4-COH (Me) 2-Ph
2320	3-F	COtBu	4-Me-Ph
2321	3-F.	COtBu	4-Et-Ph
2322	3-F	COtBu	4-iPr-Ph
2323	3-F	COtBu	4-tBu-Ph
2324	3-F	COtBu	4-CH2CO2Me-Ph
2325	3-F	COtBu	4-(1-piperidinyl)-Ph
2326	3-F	COtBu	4-(1-pyrrolidinyl)-Ph
2327	3-F	COtBu	4-(2-imidazolyl)-Ph
2328	3-F	COtBu	4-(1-imidazolyl)-Ph
2329	3-F	COtBu	4-(2-thiazoly1)-Ph
2330	3-F	COtBu	4-(3-pyrazolyl)-Ph
2331	3-F	COtBu	4-(1-pyrazolyl)-Ph
2332	3-F	. COtBu	4-(5-Me-1-tetrazolyl)-Ph
2333	3-F	COtBu	4-(1-Me-5-tetrazolyl)-Ph
2334	3-F	COtBu	4-(2-pyridyl)-Ph
2335	3-F	COtBu	4-(2-thienyl)-Ph
2336	3-F	COtBu	4-(2-furanyl)-Ph
2337	3-F	COtBu	2-CN-Ph
2338	3-F	COtBu	2-COMe-Ph
2339	3-F	COtBu	2-CO2Me-Ph
2340	3-F	COtBu	2-CONH2-Ph
2341	3-F	COtBu	2-CONHMe-Ph
2342	3-F	COtBu	2-F-Ph
2343	3-F	COtBu	2-C1-Ph
2344	3-F	COtBu	2-Br-Ph
2345	3-F	COtBu	2-SO2NH2-Ph
2346	3-F	COtBu	2-SO2NHMe-Ph
2347	3-F	COtBu	2-CF3-Ph
2348	3-F	COtBu	2-OMe-Ph
2349	3-F	COtBu	2-SMe-Ph
2350	3-F	COtBu	2-SOMe-Ph
2351	3-F	COtBu	2-SO2Me-Ph

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2352	3-F	COtBu	2-OH-Ph
2353	3-F	COtBu	2-CH2OH-Ph
2354	3-F	COtBu	2-CHOHMe-Ph
2355	3-F	COtBu	2-COH (Me) 2-Ph
2356	3-F	COtBu	2-Me-Ph
2357	3-F	COtBu	2-Et-Ph
2358	3-F	COtBu	2-iPr-Ph
2359	3-F	COtBu	2-tBu-Ph
2360	3-F	COtBu	2-CH2CO2Me-Ph
2361	3-F	COtBu	2-(1-piperidinyl)-Ph
2362	3-F	COtBu	2-(1-pyrrolidinyl)-Ph
2363	3-F	COtBu	2-(2-imidazolyl)-Ph
2364	3-F	COtBu	2-(1-imidazolyl)-Ph
2365	3-F	COtBu	2-(2-thiazolyl)-Ph
2366	3-F	COtBu	2-(3-pyrazolyl)-Ph
2367	3-F	COtBu	2-(1-pyrazolyl)-Ph
2368	3-F	COtBu	2-(5-Me-1-tetrazolyl)-Ph
2369	3-F	COtBu	2-(1-Me-5-tetrazolyl)-Ph
2370	3-F	COtBu	2-(2-pyridyl)-Ph
2371	3-F	COtBu	2-(2-thienyl)-Ph
2372	3-F	COtBu	2-(2-furanyl)-Ph
2373	3-F	COtBu	2,4-diF-Ph
2374	3-F	COtBu	2,5-diF-Ph
2375	3-F	COtBu	2,6-diF-Ph
2376	3-F	COtBu	3,4-diF-Ph
2377	3-F	COtBu	3,5-diF-Ph
2378	3-F	COtBu	2,4-diCl-Ph
2379	3-F	COtBu	2,5-diCl-Ph
2380	3-F	COtBu	2,6-diCl-Ph
2381	3-F	COtBu	3,4-diCl-Ph
2382	3-F	COtBu	3,5-diCl-Ph
2383	3-F	COtBu	3,4-diCF3-Ph
2384	3-F	COtBu	3,5-diCF3-Ph
2385	3-F	COtBu	5-Cl-2-MeO-Ph
2386	3-F	COtBu	5-Cl-2-Me-Ph
2387	3-F	COtBu	2-F-5-Me-Ph
2388	3-F	COtBu	3-F-5-morpholino-Ph
2389	3-F	COtBu	3,4-OCH2O-Ph
2390	3-F	COtBu	3,4-OCH2CH2O-Ph
2391	3-F	COtBu	2-MeO-5-CONH2-Ph
2392	3-F	COtBu	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
2393	3-F	COtBu	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
2394	3-F	COtBu	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
2395	3-F	COtBu	1-naphthyl
2396	3-F	COtBu	2-naphthyl
2397	3-F	COtBu	2-thienyl
2398	3-F	COtBu	3-thienyl
2399	3-F	COtBu	2-furanyl
2400	3-F	COtBu	3-furanyl
2401	3-F	COtBu	2-pyridyl
2402	3-F		
2402	3-r	COtBu	3-pyridyl

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2403	3-F	COtBu	4-pyridyl
2404	3-F	COtBu	2-indolyl
2405	3-F	COtBu	3-indolyl
2406	3-F	COtBu	5-indolyl
2407	3-F	COtBu	6-indolyl
2408	3-F	COtBu	3-indazolyl
2409	3-F	COtBu	5-indazolyl
2410	3-F	COtBu	6-indazolyl
2411	3-F	COtBu	2-imidazolyl
2412	3-F	COtBu	3-isoxazoyl
2413	3-F	COtBu	3-pyrazolyl
2414	3-F	COtBu	2-thiadiazolyl
2415	3-F	COtBu	2-thiazolyl
2416	3-F	COtBu	5-Ac-4-Me-2-thiazolyl
2417	3-F	COtBu	5-tetrazolyl
2418	3-F	COtBu	2-benzimidazolyl
2419	3-F	COtBu	5-benzimidazolyl
2420	3-F	COtBu	2-benzothiazolyl
2421	3-F	COtBu	5-benzothiazolyl
2422	3-F	COtBu	2-benzoxazolyl
2423	3-F	COtBu	5-benzoxazolyl
2424	3-F	COtBu	1-adamantyl
2425	3-F	COtBu	2-adamantyl
2426	3-F	COtBu	i-Pr
2427	3-F	COtBu	t-Bu
2428	3-F	COtBu	с-Нех
2429	3-F	COtBu	CH2CH2OMe
2430	3-F	COtBu	CH2CONH2
2431	3-F	COtBu	CH2CO2Me
2432	3-F	COtBu	CH (CH2Ph) CO2Me
2433	3-F	COtBu	CH2CH2NMe2
2434	3-F	COtBu	benzyl
2435	3-F	COtBu	phenethyl
2436	3-F	COtBu	2-(morpholin-1-yl)-Et
	3-F	SO2Me	Ph
2438 2439	3-F	SO2Me	3-CN-Ph
2440	3-F	SO2Me SO2Me	3-COMe-Ph
2441	3-F	SO2Me SO2Me	3-CO2Me-Ph
2442	3-F		3-CONH2-Ph
2443	3-F	SO2Me SO2Me	3-CONHMe-Ph
2444	3-F	SO2Me	3-F-Ph
2445	3-F	SO2Me	3-C1-Ph 3-Br-Ph
2446	3-F	SO2Me	3-BI-PH 3-SO2NH2-Ph
2447	3-F	SO2Me	3-SO2NH2-Ph
2448	3-F	SO2Me	3-SOZNAME-Ph 3-CF3-Ph
2449	3-F	SO2Me	
2450	3-F	SO2Me	3-OMe-Ph
2451	3-F	SO2Me	3-SMe-Ph 3-SOMe-Ph
2452	3-F	SO2Me	3-SOME-Ph
2453	3-F	SO2Me	
4433	2-5	SUZME	3-OH-Ph

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2454	3-F	SO2Me	3-CH2OH-Ph
2455	3-F	SO2Me_	3-CHOHMe-Ph
2456	3-F	SO2Me	3-COH (Me) 2-Ph
2457	3-F	SO2Me	3-Me-Ph
2458	3-F	SO2Me	3-Et-Ph
2459	3-F	SO2Me	3-iPr-Ph
2460	3-F	SO2Me	3-tBu-Ph
2461	3-F	SO2Me	3-CH2CO2Me-Ph
2462	3-F	SO2Me	3-(1-piperidinyl)-Ph
2463	3-F	SO2Me	3-(1-pyrrolidiny1)-Ph
2464	3-F	SO2Me	3-(2-imidazolyl)-Ph
2465	3-F	SO2Me	3-(1-imidazolyl)-Ph
2466	3-F	SO2Me	3-(2-thiazolyl)-Ph
2467	3-F	SO2Me	3-(3-pyrazolyl)-Ph
2468	3-F	SO2Me	3-(1-pyrazolyl)-Ph
2469	3-F	SO2Me	3-(5-Me-1-tetrazolyl)-Ph
2470	3-F	SO2Me	3-(1-Me-5-tetrazolyl)-Ph
2471	3-F	SO2Me	3-(2-pyridyl)-Ph
2472	3-F	SO2Me_	3-(2-thienyl)-Ph
2473	3-F	SO2Me	3-(2-furanyl)-Ph
2474	3-F	SO2Me	4-CN-Ph
2475	3-F	SO2Me	4-COMe-Ph
2476	3-F	SO2Me	4-CO2Me-Ph
2477	3-F	SO2Me	4-CONH2-Ph
2478	3-F	SO2Me	4-CONHMe-Ph
2479	3-F	SO2Me	4-CONHPh-Ph
2480	3-F	SO2Me	4-F-Ph
2481	3-F	SO2Me	4-Cl-Ph
2482	3-F	SO2Me	4-Br-Ph
2483	3-F	SO2Me	4-SO2NH2-Ph
2484	3-F	SO2Me	4-SO2NHMe-Ph
2485	3-F	SO2Me	4-CF3-Ph
2486	3-F	SO2Me_	4-OMe-Ph
2487	3-F	SO2Me	4-SMe-Ph
2488	3-F	SO2Me	4-SOMe-Ph
2489	3-F	SO2Me	4-SO2Me-Ph
2490	3-F	SO2Me	4-OH-Ph
2491	3-F	SO2Me	4-CH2OH-Ph
2492	3-F	SO2Me	4-CHOHMe-Ph
2493	3-F	SO2Me	4-COH (Me) 2-Ph
2494	3-F	SO2Me	4-Me-Ph
2495	3-F	SO2Me	4-Et-Ph
2496	3-F	SO2Me	4-iPr-Ph
2497	3-F	SO2Me	4-tBu-Ph
2498	3-F	SO2Me	4-CH2CO2Me-Ph
2499	3-F	S02Me	4-(1-piperidinyl)-Ph
2500	3-F	SO2Me	4-(1-pyrrolidinyl)-Ph
2501	3-F	SO2Me	4-(2-imidazolyl)-Ph
2502	3-F	SO2Me	4-(1-imidazolyl)-Ph
2503	3-F	SO2Me	4-(2-thiazoly1)-Ph
2504	3-F	SO2Me	4-(3-pyrazolyl)-Ph
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2505	3-F	SO2Me	4-(1-pyrazolyl)-Ph
2506	3-F	SO2Me	4-(5-Me-1-tetrazoly1)-Ph
2507	3-F	SO2Me	4-(1-Me-5-tetrazolyl)-Ph
2508	3-F	SO2Me	4-(2-pyridyl)-Ph
2509	3-F	SO2Me	4-(2-thienyl)-Ph
2510	3-F	SO2Me	4-(2-furany1)-Ph
2511	3-F	SO2Me	2-CN-Ph
2512	3-F	SO2Me	2-COMe-Ph
2513	3-F	SO2Me	2-CO2Me-Ph
2514	3-F	SO2Me	2-CONH2-Ph
2515	3-F	SO2Me	2-CONHMe-Ph
2516	3-F	SO2Me	2-F-Ph
2517	3-F	SO2Me	2-C1-Ph
2518	3-F	SO2Me	2-Br-Ph
2519	3-F	SO2Me	2-SO2NH2-Ph
2520	3-F	SO2Me	2-SO2NHMe-Ph
2521	3-F	SO2Me	2-CF3-Ph
2522	3-F	SO2Me	2-OMe-Ph
2523	3-F	SO2Me	2-SMe-Ph
2524	3-F	SO2Me	2-SOMe-Ph
2525	3-F	SO2Me	2-SO2Me-Ph
2526	3-F	SO2Me	2-OH-Ph
2527	3-F	SO2Me	2-CH2OH-Ph
2528	3-F	SO2Me	2-CHOHMe-Ph
2529	3-F	SO2Me	2-COH (Me) 2-Ph
2530	3-F	SO2Me	2-Me-Ph
2531	3-F	SO2Me	2-Et-Ph
2532	3-F	SO2Me	2-iPr-Ph
2533	3-F	SO2Me	2-tBu-Ph
2534	3-F	SO2Me	2-CH2CO2Me-Ph
2535	3-F	SO2Me	2-(1-piperidinyl)-Ph
2536	3-F	SO2Me	2-(1-pyrrolidinyl)-Ph
2537	3-F	SO2Me	2-(2-imidazolyl)-Ph
2538	3-F	SO2Me	2-(1-imidazolyl)-Ph
2539	3-F	SO2Me	2-(2-thiazolyl)-Ph
2540	3-F	SO2Me	2-(3-pyrazolyl)-Ph
2541	3-F	SO2Me	2-(1-pyrazolyl)-Ph
2542	3-F	SO2Me	2-(5-Me-1-tetrazolyl)-Ph
2543	3-F	SO2Me	2-(1-Me-5-tetrazolyl)-Ph
2544	3-F	SO2Me	2-(2-pyridyl)-Ph
2545	3-F	SO2Me	2-(2-thienyl)-Ph
2546	3-F	SO2Me	2-(2-furanyl)-Ph
2547	3-F	SO2Me	2,4-diF-Ph
2548	3-F	SO2Me	2,5-diF-Ph
2549	3-F	SO2Me	2,6-diF-Ph
2550	3-F	SO2Me	3,4-diF-Ph
2551	3-F	SO2Me	3,5-diF-Ph
2552	3-F	SO2Me	2,4-diCl-Ph
2553	3-F	SO2Me	2,5-diCl-Ph
2554	3-F	SO2Me	2,6-diCl-Ph
2555	3-F	SO2Me	3,4-diCl-Ph
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2556	3-F	SO2Me	3,5-diCl-Ph
2557	3-F	SO2Me	3,4-diCF3-Ph
2558	3-F	SO2Me	3,5-diCF3-Ph
2559	3-F	SO2Me	5-Cl-2-MeO-Ph
2560	3-F	SO2Me	5-C1-2-Me-Ph
2561	3-F	SO2Me	2-F-5-Me-Ph
2562	3-F	SO2Me	3-F-5-morpholino-Ph
2563	3-F	SO2Me	3,4-OCH2O-Ph
2564	3-F	SO2Me	3,4-OCH2CH2O-Ph
2565	3-F	SO2Me	2-MeO-5-CONH2-Ph
2566	3-F	SO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
2567	3-F	SO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
2568	3-F	SO2Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
2569	3-F	SO2Me	1-naphthyl
2570	3-F	SO2Me	2-naphthyl
2571	3-F	SO2Me	2-thienyl
2572	3-F	SO2Me	3-thienyl
2573	3-F	SO2Me	2-furanyl
2574	3-F	SO2Me	3-furanyl
2575	3-F	SO2Me	2-pyridyl
2576	3-F	SO2Me	3-pyridyl
2577	3-F	SO2Me	4-pyridyl
2578	3-F	SO2Me	2-indolyl
2579	3-F	SO2Me	3-indolyl
2580	3-F	SO2Me	5-indolyl
2581	3-F	SO2Me	6-indolyl
2582	3-F	SO2Me	3-indazolyl
2583	3-F	SO2Me	5-indazolyl
2584	3-F	SO2Me	6-indazolyl
2585	3-F	SO2Me	2-imidazolyl
2586	3-F	SO2Me	3-isoxazoyl
2587	3-F	SO2Me	3-pyrazolyl
2588	3-F	SO2Me	2-thiadiazolyl
2589	3-F	SO2Me	2-thiazolyl
2590	3-F	SO2Me	5-Ac-4-Me-2-thiazolyl
2591	3-F	SO2Me	5-tetrazolyl
2592	3-F	SO2Me	2-benzimidazolyl
2593′	3-F	SO2Me	5-benzimidazolyl
2594	3-F	SO2Me	2-benzothiazolyl
2595	3-F	SO2Me	5-benzothiazolyl
2596	3-F	SO2Me	2-benzoxazolyl
2597	3-F	SO2Me	5-benzoxazolyl
2598	3-F	SO2Me	1-adamantyl
2599	3-F	SO2Me	2-adamantyl
2600	3-F	SO2Me	i-Pr
2601	3-F	SO2Me	t-Bu
2602	3-F	SO2Me	c-Hex
2603	3-F	SO2Me	CH2CH2OMe
2604	3-F	SO2Me	CH2CONH2
2605	3-F	SO2Me	CH2CO2Me
2606	3-F	SO2Me	CH (CH2Ph) CO2Me
2000		COLITIC	OII (CIIZI II) COZIIC

2607	3-F	SO2Me	CH2CH2NMe2
2608	3-F	SO2Me	
2609	3-F	SO2Me	benzyl
2610	3-F	SO2Me	phenethyl 2-(morpholin-1-yl)-Et
2611	3-F	CH2COMe	2-(morphorm-1-y1)-Et Ph
2612	3-F		
	3-F	CH2COMe	
2613 2614	3-F	CH2COMe	3-COMe-Ph
	3-F	CH2COMe	3-CO2Me-Ph
2615		CH2COMe	3-CONH2-Ph
2616	3-F	CH2COMe	3-CONHMe-Ph
2617	3-F	CH2COMe	3-F-Ph
2618	3-F	CH2COMe	3-Cl-Ph
2619	3-F	CH2COMe	3-Br-Ph
2620	3-F	CH2COMe	3-SO2NH2-Ph
2621	3-F	CH2COMe	3-SO2NHMe-Ph
2622	3-F	CH2COMe	3-CF3-Ph
2623	3-F	CH2COMe	3-OMe-Ph
2624	3-F	CH2COMe	3-SMe-Ph
2625	3-F	CH2COMe	3-SOMe-Ph
2626	3-F	CH2COMe	3-SO2Me-Ph
2627	3-F	CH2COMe	3-OH-Ph
2628	3-F	CH2COMe	3-CH2OH-Ph
2629	3-F	CH2COMe	3-CHOHMe-Ph
2630	3-F	CH2COMe	3-COH (Me) 2-Ph
2631	3-F	CH2COMe	3-Me-Ph
2632	3-F	CH2COMe	3-Et-Ph
2633	3-F	CH2COMe	3-iPr-Ph
2634	3-F	CH2COMe	3-tBu-Ph
2635	3-F	CH2COMe	3-CH2CO2Me-Ph
2636	3-F	CH2COMe	3-(1-piperidinyl)-Ph
2637	3-F	CH2COMe	3-(1-pyrrolidinyl)-Ph
2638	3-F	CH2COMe	3-(2-imidazolyl)-Ph
2639	3-F	CH2COMe	3-(1-imidazolyl)-Ph
2640	3-F	CH2COMe	3-(2-thiazolyl)-Ph
2641	3-F	CH2COMe	3-(3-pyrazoly1)-Ph
2642	3-F	CH2COMe	3-(1-pyrazolyl)-Ph
2643	3-F	CH2COMe	3-(5-Me-1-tetrazolyl)-Ph
2644	3-F	CH2COMe	3-(1-Me-5-tetrazolyl)-Ph
2645	3-F	CH2COMe	3-(2-pyridyl)-Ph
2646	3-F	CH2COMe	3-(2-thienyl)-Ph
2647	3-F	CH2COMe	3-(2-furanyl)-Ph
2648	3-F	CH2COMe	4-CN-Ph
2649	3-F	CH2COMe	4-COMe-Ph
2650	3-F	CH2COMe	4-CO2Me-Ph
2651	3-F	CH2COMe	4-CONH2-Ph
2652	3-F	CH2COMe	4-CONHMe-Ph
2653	3-F	CH2COMe	4-CONHPh-Ph
2654	3-F	CH2COMe	4-F-Ph
2655	3-F	CH2COMe	4-C1-Ph
2656	3-F	CH2COMe	4-Br-Ph
2657	3-F	CH2COMe	4-SO2NH2-Ph

2658	3-F	CH2COMe	4-SO2NHMe-Ph
2659	3-F	CH2COMe	4-CF3-Ph
2660	3-F	CH2COMe	4-OMe-Ph
2661	3-F	CH2COMe	4-SMe-Ph
2662	3-F	CH2COMe	4-SOMe-Ph
2663	3-F		
		CH2COMe	4-SO2Me-Ph
2664	3-F	CH2COMe	4-OH-Ph
2665	3-F	CH2COMe	4-CH2OH-Ph
2666	3-F	CH2COMe	4-CHOHMe-Ph
2667	3-F	CH2COMe	4-COH (Me) 2-Ph
2668	3-F	CH2COMe	4-Me-Ph
2669	3-F	CH2COMe	4-Et-Ph
2670	3-F	CH2COMe	4-iPr-Ph
2671	3-F	CH2COMe	4-tBu-Ph
2672	3-F	CH2COMe	4-CH2CO2Me-Ph
2673	3-F	CH2COMe	4-(1-piperidinyl)-Ph
2674	3-F	CH2COMe	4-(1-pyrrolidinyl)-Ph
2675	3-F	CH2COMe	4-(2-imidazolyl)-Ph
2676	3-F	CH2COMe	4-(1-imidazolyl)-Ph
2677	3-F	CH2COMe	4-(2-thiazoly1)-Ph
2678	3-F	CH2COMe	4-(3-pyrazoly1)-Ph
2679	3-F	CH2COMe	4-(1-pyrazolyl)-Ph
2680	3-F	CH2COMe	4-(5-Me-1-tetrazolyl)-Ph
2681	3-F	CH2COMe	4-(1-Me-5-tetrazolyl)-Ph
2682	3-F	CH2COMe	4-(2-pyridyl)-Ph
2683	3-F	CH2COMe	4-(2-thienyl)-Ph
2684	3-F	CH2COMe	4-(2-furany1)-Ph
2685	3-F	CH2COMe	2-CN-Ph
2686	3-F	CH2COMe	2-COMe-Ph
2687	3-F	CH2COMe	2-CO2Me-Ph
2688	3-F	CH2COMe	2-CONH2-Ph
2689	3-F	CH2COMe	2-CONHMe-Ph
2690	3-F	CH2COMe	2-F-Ph
2691	3-F	CH2COMe	2-C1-Ph
2692	3-F	CH2COMe	2-Br-Ph
2693	3-F	CH2COMe	2-SO2NH2-Ph
2694	3-F	CH2COMe	2-SO2NHMe-Ph
2695	3-F	CH2COMe	2-CF3-Ph
2696	3-F	CH2COMe	2-OMe-Ph
2697	3-F	CH2COMe	2-SMe-Ph
2698	3-F	CH2COMe	2-SOMe-Ph
2699	3-F	CH2COMe	2-SO2Me-Ph
2700	3-F	CH2COMe	2-502Me-FH 2-OH-Ph
2701	3-F	CH2COMe	2-CH2OH-Ph
2702	3-F	CH2COMe	2-CH2OH-PH 2-CHOHMe-Ph
2702			~~ · · · · · · · · · · · · · · · · · ·
	3-F	CH2COMe	2-COH (Me) 2-Ph
2704	3-F	CH2COMe	2-Me-Ph
2705	3-F	CH2COMe	2-Et-Ph
2706	3-F	CH2COMe	2-iPr-Ph
2707	3-F	CH2COMe	2-tBu-Ph
2708	3-F	CH2COMe	2-CH2CO2Me-Ph

2709	3-F	CH2COMe	2-(1-piperidinyl)-Ph
2710	3-F	CH2COMe	2-(1-pyrrolidinyl)-Ph
2711	3-F	CH2COMe	2-(2-imidazolyl)-Ph
2712	3-F	CH2COMe	2-(1-imidazolyl)-Ph
2713	3-F	CH2COMe	2-(2-thiazolyl)-Ph
2714	3-F	CH2COMe	2-(3-pyrazolyl)-Ph
2715	3-F	CH2COMe	2-(1-pyrazolyl)-Ph
2716	3-F	CH2COMe	2-(5-Me-1-tetrazolyl)-Ph
2717	3-F	CH2COMe	2-(1-Me-5-tetrazolyl)-Ph
2718	3-F	CH2COMe	2-(2-pyridyl)-Ph
2719	3-F	CH2COMe	2-(2-thienyl)-Ph
2720	3-F	CH2COMe	2-(2-furanyl)-Ph
2721	3-F	CH2COMe	2,4-diF-Ph
2722	3-F	CH2COMe	2,5-diF-Ph
2723	3-F	CH2COMe	2,6-diF-Ph
2724	3-F	CH2COMe	3,4-diF-Ph
2725	3-F	CH2COMe	3,5-diF-Ph
2726	3-F	CH2COMe	2,4-diCl-Ph
2727	3-F	CH2COMe	2,5-diCl-Ph
2728	3-F	CH2COMe	2,6-diCl-Ph
2729	3-F	CH2COMe	3,4-diCl-Ph
2730	3-F	CH2COMe	3,5-diCl-Ph
2731	3-F	CH2COMe	3,4-diCF3-Ph
2732	3-F	CH2COMe	3,5-diCF3-Ph
2733	3-F	CH2COMe	5-C1-2-MeO-Ph
2734	3-F	CH2COMe	5-C1-2-Me-Ph
2735	3-F	CH2COMe	2-F-5-Me-Ph
2736	3-F	CH2COMe	3-F-5-morpholino-Ph
2737	3-F	CH2COMe	3,4-OCH2O-Ph
2738	3-F	CH2COMe	3,4-OCH2CH2O-Ph
2739	3-F	CH2COMe	2-MeO-5-CONH2-Ph
2740	3-F	CH2COMe	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
2741	3-F	CH2COMe	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
2742	3-F	CH2COMe	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
2743	3-F	CH2COMe	1-naphthyl
2744	3-F	CH2COMe	2-naphthyl
2745	3-F	CH2COMe	2-thienyl
2746	3-F	CH2COMe	3-thienyl
2747	3-F	CH2COMe	2-furanyl
2748	3-F	CH2COMe	3-furanyl
2749	3-F	CH2COMe	2-pyridyl
2750	3-F	CH2COMe	3-pyridyl
2751	3-F	CH2COMe	4-pyridyl
2752	3-F	CH2COMe	2-indolyl
2753	3-F	CH2COMe	3-indolyl
2754	3-F	CH2COMe	5-indolyl
2755	3-F	CH2COMe	6-indolyl
2756	3-F	CH2COMe	3-indazolyl
2757	3-F	CH2COMe	5-indazolyl
2758	3-F	CH2COMe	6-indazolyl
2759	3-F	CH2COMe	2-imidazolyl
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2760	3-F	CH2COMe	3-isoxazoyl
2761	3-F	CH2COMe	3-pyrazolyl
2762	3-F	CH2COMe	2-thiadiazolyl
2763	3-F	CH2COMe	2-thiazolyl
2764	3-F	CH2COMe	5-Ac-4-Me-2-thiazolyl
2765	3-F	CH2COMe	5-tetrazolyl
2766	3-F	CH2COMe	2-benzimidazolyl
2767	3-F	CH2COMe	5-benzimidazolyl
2768	3-F	CH2COMe	2-benzothiazolyl
2769	3-F	CH2COMe	5-benzothiazolyl
2770	3-F	CH2COMe	2-benzoxazolyl
2771	3-F	CH2COMe	5-benzoxazolyl
2772	3-F	CH2COMe	1-adamantyl
2773	3-F	CH2COMe	2-adamantyl
2774	3-F	CH2COMe	i-Pr
2775	3-F	CH2COMe	t-Bu
2776	3-F	CH2COMe	c-Hex
2777	3-F	CH2COMe	CH2CH2OMe
2778	3-F	CH2COMe	CH2CONH2
2779	3-F	CH2COMe	CH2CO2Me
2780	3-F	CH2COMe	CH(CH2Ph)CO2Me
2781	3-F	CH2COMe	CH2CH2NMe2
2782	3-F	CH2COMe	benzyl
2783	3-F	CH2COMe	phenethyl
2784	3-F	CH2COMe	2-(morpholin-1-yl)-Et
2785	4-F	Н	Ph
2786	4-F	H	3-CN-Ph
2787	4-F	H	3-COMe-Ph
2788	4-F	Н	3-CO2Me-Ph
2789	4-F	H	3-CONH2-Ph
2790	4-F	H	3-CONHMe-Ph
2791	4-F	Н	3-F-Ph
2792	4-F	H	3-Cl-Ph
2793	4-F	H	3-Br-Ph
2794	4-F	H	3-SO2NH2-Ph
2795	4-F	H	3-SO2NHMe-Ph
2796	4-F	Н	3-CF3-Ph
2797	4-F	Н	3-OMe-Ph
2798	4-F	Н	3-SMe-Ph
2799	4-F	Н	3-SOMe-Ph
2800	4-F	Н	3-SO2Me-Ph
2801	4-F	Н	3-OH-Ph
2802	4-F	Н	3-CH2OH-Ph
2803	4-F	Н	3-CHOHMe-Ph
2804	4-F	Н	3-COH (Me) 2-Ph
2805	4-F	Н	3-Me-Ph
2806	4-F	H	3-Et-Ph
2807	4-F	H .	3-iPr-Ph
2808	4-F	H	3-tBu-Ph
2809	4-F	Н Н	3-CH2CO2Me-Ph
2810	4-F	H H	3-(1-piperidinyl)-Ph
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2011	4 77	77	2 /11:1:1\ 71
2811	4-F	H	3-(1-pyrrolidinyl)-Ph
2812	4-F	H	3-(2-imidazolyl)-Ph
2813	4-F	H	3-(1-imidazolyl)-Ph
2814	4-F	H	3-(2-thiazolyl)-Ph
2815	4-F	H	3-(3-pyrazoly1)-Ph
2816	4-F	Н	3-(1-pyrazolyl)-Ph
2817	4-F	H	3-(5-Me-1-tetrazolyl)-Ph
2818	4-F	H	3-(1-Me-5-tetrazolyl)-Ph
2819	4-F	H	3-(2-pyridyl)-Ph
2820	4-F	н	3-(2-thienyl)-Ph
2821	4-F	H	3-(2-furanyl)-Ph
2822	4-F	H	4-CN-Ph
2823	4-F	H	4-COMe-Ph
2824	4-F	H	4-CO2Me-Ph
2825	4-F	H	4-CONH2-Ph
2826	4-F	H	4-CONHMe-Ph
2827	4-F	Н	4-CONHPh-Ph
2828	4-F	H	4-F-Ph
2829	4-F	H	4-Cl-Ph
2830	4-F	H	4-Br-Ph
2831	4-F	H_	4-SO2NH2-Ph
2832	4-F	H	4-SO2NHMe-Ph
2833	4-F	H	4-CF3-Ph
2834	4-F	H	4-OMe-Ph
2835	4-F	H	4-SMe-Ph
2836	4-F	H	4-SOMe-Ph
2837	4-F	H	4-SO2Me-Ph
2838	4-F	H	4-OH-Ph
2839	4-F	Н	4-CH2OH-Ph
2840	4-F	Н	4-CHOHMe-Ph
2841	4-F	H	4-COH(Me)2-Ph
2842	4-F	H	4-Me-Ph
2843	4-F	H	4-Et-Ph
2844	4-F	H	4-iPr-Ph
2845	4-F	Н	4-tBu-Ph
2846	4-F	H	4-CH2CO2Me-Ph
2847	4-F	H	4-(1-piperidinyl)-Ph
2848	4-F	Н	4-(1-pyrrolidinyl)-Ph
2849	4-F	H	4-(2-imidazoly1)-Ph
2850	4-F	Н	4-(1-imidazolyl)-Ph
2851	4-F	H	4-(2-thiazolyl)-Ph
2852	4-F	H	4-(3-pyrazolyl)-Ph
2853	4-F	H	4-(1-pyrazolyl)-Ph
2854	4-F	H	4-(5-Me-1-tetrazolyl)-Ph
2855	4-F	H	4-(1-Me-5-tetrazoly1)-Ph
2856	4-F	H	4-(2-pyridyl)-Ph
2857	4-F	Н	4-(2-thienyl)-Ph
2858	4-F	Н	4-(2-furanyl)-Ph
2859	4-F	Н	2-CN-Ph
2860	4-F	Н	2-COMe-Ph
2861	4-F	H	2-CO2Me-Ph
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2062	1 4 12	77	2 CONTIN Ph
2862	4-F	H	2-CONH2-Ph
2863	4-F	H	2-CONHMe-Ph
2864	4-F	H	2-F-Ph
2865	4-F	H	2-Cl-Ph
2866	4-F	H	2-Br-Ph
2867	4-F	H	2-SO2NH2-Ph
2868	4-F	H	2-SO2NHMe-Ph
2869	4-F	H	2-CF3-Ph
2870	4-F	H	2-OMe-Ph
2871	4-F	H	2-SMe-Ph
2872	4-F	H	2-SOMe-Ph
2873	4-F	H	2-SO2Me-Ph
2874	4-F	H	2-OH-Ph
2875	4-F	H	2-CH2OH-Ph
2876	4-F	H	2-CHOHMe-Ph
2877	4-F	H	2-COH (Me) 2-Ph
2878	4-F	H	2-Me-Ph
2879	4-F	H	2-Et-Ph
2880	4-F	H	2-iPr-Ph
2881	4-F	H	2-tBu-Ph
2882	4-F	H	2-CH2CO2Me-Ph
2883	4-F	H	2-(1-piperidinyl)-Ph
2884	4-F	H	2-(1-pyrrolidinyl)-Ph
2885	4-F	Н	2-(2-imidazolyl)-Ph
2886	4-F	Н	2-(1-imidazolyl)-Ph
2887	4-F	Н	2-(2-thiazolyl)-Ph
2888	4-F	Н	2-(3-pyrazolyl)-Ph
2889	4-F	Н	2-(1-pyrazolyl)-Ph
2890	4-F	Н	2-(5-Me-1-tetrazolyl)-Ph
2891	4-F	Н	2-(1-Me-5-tetrazolyl)-Ph
2892	4-F	H	2-(2-pyridyl)-Ph
2893	4-F	H	2-(2-thienyl)-Ph
2894	4-F	H	2-(2-furanyl)-Ph
2895	4-F	H	2,4-diF-Ph
2896	4-F	H	2,5-diF-Ph
2897	4-F	Н	2,6-diF-Ph
2898	4-F	H	3,4-diF-Ph
2899	4-F	H	3,5-diF-Ph
2900	4-F	H	2,4-diCl-Ph
2901	4-F	H	2,5-diCl-Ph
2902	4-F	H	2,6-diCl-Ph
2903	4-F	H	3,4-diCl-Ph
2904	4-F	H	3,5-diCl-Ph
2905	4-F	H	3,4-diCF3-Ph
2906	4-F	H	3,5-diCF3-Ph
2907	4-F	H	5-C1-2-MeO-Ph
2908	4-F	H	5-C1-2-MeO-Ph
2909	4-F	H	2-F-5-Me-Ph
2910	4-F	H	3-F-5-me-Ph 3-F-5-morpholino-Ph
2911			
	4-F	H	3,4-OCH2O-Ph
2912	4-F	H	3,4-OCH2CH2O-Ph

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2913	4-F	H	2-MeO-5-CONH2-Ph
2914	4-F	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
2915	4-F	H	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
2916	4-F	H	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
2917	4-F	H	1-naphthyl
2918	4-F	H	2-naphthyl
2919	4-F	H	2-thienyl
2920	4-F	H	3-thienyl
2921	4-F	H	2-furanyl
2922	4-F	Н	3-furanyl
2923	4-F	H	2-pyridyl
2924	4-F	H	3-pyridyl
2925	4-F	H	4-pyridyl
2926	4-F	Н	2-indolyl
2927	4-F	H	3-indolyl
2928	4-F	H	5-indolyl
2929	4-F	Н	6-indoly1
2930	4-F	н	3-indazolyl
2931	4-F	H	5-indazolyl
2932	4-F	Н	6-indazolyl
2933	4-F	H	2-imidazolyl
2934	4-F	H	3-isoxazoyl
2935	4-F	H	3-pyrazolyl
2936	4-F	Н	2-thiadiazolyl
2937	4-F	H	2-thiazolyl
2938	4-F	H	5-Ac-4-Me-2-thiazolyl
2939	4-F	H	5-tetrazolyl
2940	4-F	H	2-benzimidazolyl
2941	4-F	H	5-benzimidazolyl
2942	4-F	H	2-benzothiazolyl
2943	4-F	H	5-benzothiazolyl
2944	4-F	H	2-benzoxazolyl
2945	4-F	H	5-benzoxazolyl
2946	4-F	H	1-adamantyl
2947	4-F	H	2-adamanty1
2948	4-F	H	i-Pr
2949	4-F	H	t-Bu
2950	4-F	H	c-Hex
2951	4-F	H	CH2CH2OMe
2952	4-F	Н	CH2CONH2
2953	4-F	Н	CH2CO2Me
2954	4-F	H	CH (CH2Ph) CO2Me
2955	4-F	Н	CH2CH2NMe2
2956	4-F	H	benzyl
2957	4-F	Н	phenethyl
2958	4-F	н	2-(morpholin-1-yl)-Et
2959	4-F	Me	Ph
2960	4-F	Me	3-CN-Ph
2961	4-F	Me	3-COMe-Ph
2962	4-F	Me	3-CO2Me-Ph
2963	4-F	Me	3-CONH2-Ph

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2964	4-F	Me	3-CONHMe-Ph
2965	4-F	Me	3-F-Ph
2966	4-F	Me	3-Cl-Ph
2967	4-F	Me	3-Br-Ph
2968	4-F	Me	3-SO2NH2-Ph
2969	4-F	Me	3-SO2NHMe-Ph
2970	4-F	Me	3-CF3-Ph
2971	4-F	Me	3-OMe-Ph
2972	4-F	Me	3-SMe-Ph
2973	4-F	Me	3-SOMe-Ph
2974	4-F	Me	3-SO2Me-Ph
2975	4-F	Me	3-OH-Ph
2976	4-F	Me	3-CH2OH-Ph
2977	4-F	Me	3-CHOHMe-Ph
2978	4-F	Me	3-COH (Me) 2-Ph
2979	4-F	Me	3-Me-Ph
2980	4-F	Me	3-Et-Ph
2981	4-F	Me	3-iPr-Ph
2982	4-F	Me	3-tBu-Ph
2983	4-F	Me	3-CH2CO2Me-Ph
2984	4-F	Me	3-(1-piperidinyl)-Ph
2985	4-F	Me	3-(1-pyrrolidinyl)-Ph
2986	4-F	Me	3-(2-imidazolyl)-Ph
2987	4-F	Me	3-(1-imidazolyl)-Ph
2988	4-F	Me	3-(2-thiazoly1)-Ph
2989	4-F	Me	3-(3-pyrazoly1)-Ph
2990	4-F	Me	3-(1-pyrazoly1)-Ph
2991	4-F	Me	3-(5-Me-1-tetrazolyl)-Ph
2992	4-F	Me	3-(1-Me-5-tetrazolyl)-Ph
2993	4-F	Me	3-(2-pyridyl)-Ph
2994	4-F	Me	3-(2-thienyl)-Ph
2995	4-F	Me	3-(2-furanyl)-Ph
2996	4-F	Me	4-CN-Ph
2997	4-F	Me	4-COMe-Ph
2998	4-F	Me	4-CO2Me-Ph
2999	4-F	Me	4-CONH2-Ph
3000	4-F	Me	4-CONHMe-Ph
3001	4-F	Me	4-CONHPh-Ph
3002	4-F	Me	4-F-Ph
3003	4-F	Me	4-Cl-Ph
3004	4-F	Me	4-Br-Ph
3005	4-F	Me	4-SO2NH2-Ph
3006	4-F	Me	4-SO2NHMe-Ph
3007	4-F	Me	4-CF3-Ph
3008	4-F	Me	4-OMe-Ph
3009	4-F	Me	4-SMe-Ph
3010	4-F	Me	4-SOMe-Ph
3011	4-F	Me	4-SO2Me-Ph
3012	4-F	Me	4-OH-Ph
3013	4-F	Me	4-CH2OH-Ph
3014	4-F	Me	4-CHOHMe-Ph
2014			4 CIIOIIIIC III

2015	T-4-5-		T
3015	4-F	Me	4-COH(Me)2-Ph
3016	4-F	Me	4-Me-Ph
3017	4-F	Me	4-Et-Ph
3018	4-F	Me	4-iPr-Ph
3019	4-F	Me	4-tBu-Ph
3020	4-F	Me	4-CH2CO2Me-Ph
3021	4-F	Me	4-(1-piperidinyl)-Ph
3022	4-F	Me	4-(1-pyrrolidinyl)-Ph
3023	4-F	Me	4-(2-imidazolyl)-Ph
3024	4-F	Me	4-(1-imidazolyl)-Ph
3025	4-F	Me	4-(2-thiazoly1)-Ph
3026	4-F	Me	4-(3-pyrazolyl)-Ph
3027	4-F	Me	4-(1-pyrazolyl)-Ph
3028	4-F	Me	4-(5-Me-1-tetrazolyl)-Ph
3029	4-F	Me	4-(1-Me-5-tetrazolyl)-Ph
3030	4-F	Me	4-(2-pyridyl)-Ph
3031	4-F	Me	4-(2-thienyl)-Ph
3032	4-F	Me	4-(2-furanyl)-Ph
3033	4-F	Me	2-CN-Ph
3034	4-F	Me	2-COMe-Ph
3035	4-F	Me	2-CO2Me-Ph
3036	4-F	Me	2-CONH2-Ph
3037	4-F	Me	2-CONHMe-Ph
3038	4-F	Me	2-F-Ph
3039	4-F	Me	2-C1-Ph
3040	4-F	Me	2-Br-Ph
3041	4-F	Me	2-SO2NH2-Ph
3042	4-F	Me	2-SO2NHMe-Ph
3043	4-F	Me	2-CF3-Ph
3044	4-F	Me	2-OMe-Ph
3045	4-F	Me	2-SMe-Ph
3046	4-F	Me	2-SOMe-Ph
3047	4-F	Me	2-SO2Me-Ph
3048	4-F	Me	2-OH-Ph
3049	4-F	Me	2-CH2OH-Ph
3050	4-F	Me	2-CHOHMe-Ph
3051	4-F	Me	2-COH (Me) 2-Ph
3052	4-F	Me	2-Me-Ph
3053	4-F	Me	2-Et-Ph
3054	4-F	Me	2-iPr-Ph
3055	4-F	Me	2-tBu-Ph
3056	4-F	Me	2-CH2CO2Me-Ph
3057	4-F	Me	2-(1-piperidinyl)-Ph
3058	4-F	Me	2-(1-pyrrolidinyl)-Ph
3059	4-F	Me	2-(2-imidazolyl)-Ph
3060	4-F	Me	2-(1-imidazolyl)-Ph
3061	4-F	Me	2-(2-thiazolyl)-Ph
3062	4-F	Me	2-(3-pyrazolyl)-Ph
3063	4-F	Me	2-(1-pyrazolyl)-Ph
3064	4-F	Me	2-(1-pylazory1)-Ph
3065	4-F	Me	2-(1-Me-5-tetrazolyl)-Ph
7007	- - -	1,16	7-(T-ME-7-CECTGSOTAT)-MI

3066	4-F	Me	2-(2-pyridy1)-Ph
3067	4-F	Me	2-(2-thienyl)-Ph
3068	4-F	Me	2-(2-furanyl)-Ph
3069	4-F	Me	2,4-diF-Ph
3070	4-F	Me	2,5-diF-Ph
3071	4-F	Me	2,6-diF-Ph
3072	4-F	Me	3,4-diF-Ph
3073	4-F	Me	3,5-diF-Ph
3074	4-F	Me	2,4-diCl-Ph
3075	4-F	Me	2,5-diCl-Ph
3076	4-F	Me	2,6-diCl-Ph
3077	4-F	Me	3,4-diCl-Ph
3078	4-F	Me	3,5-diCl-Ph
3079	4-F	Me	3,4-diCF3-Ph
3080	4-F	Me	3,5-diCF3-Ph
3081	4-F	Me	5-C1-2-MeO-Ph
3082	4-F	Me	5-C1-2-Me-Ph
3083	4-F	Me	2-F-5-Me-Ph
3084	4-F	Me	3-F-5-morpholino-Ph
3085	4-F	Me	3,4-OCH2O-Ph
3086	4-F	Me	3,4-OCH2CH2O-Ph
3087	4-F	Me	2-MeO-5-CONH2-Ph
3088	4-F	Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
3089	4-F	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
3090	4-F	Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
3091	4-F	Me	1-naphthyl
3092	4-F	Me	2-naphthyl
3093	4-F	Me	2-thienyl
3094	4-F	Me	3-thienyl
3095	4-F	Me	2-furanyl
3096	4-F	Me	3-furanyl
3097	4-F	Me	2-pyridyl
3098	4-F	Me	3-pyridyl
3099	4-F	Me	4-pyridyl
3100	4-F	Me	2-indolyl
3101	4-F	Me	3-indolyl
3102	4-F	Me	5-indolyl
3103	4-F	Me	6-indolyl
3104	4-F	Me	3-indazolyl
3105	4-F	Me	5-indazolyl
3106	4-F	Me	6-indazolyl
3107	4-F	Me	2-imidazolyl
3108	4-F	Me	3-isoxazoyl
3109	4-F	Me	3-pyrazolyl
3110	4-F	Me	2-thiadiazolyl
3111	4-F	Me	2-thiazolyl
3112	4-F	Me	5-Ac-4-Me-2-thiazolyl
3113	4-F	Me	5-tetrazolyl
3114	4-F	Me	2-benzimidazolyl
3115	4-F	Me	5-benzimidazolyl
3116	4-F	Me	2-benzothiazolyl

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3117	4-F	Me	5-benzothiazolyl
3118	4-F	Me	2-benzoxazolyl
3119	4-F	Me	5-benzoxazolyl
3120	4-F	Me	1-adamantyl
3121	4-F	Me	2-adamantyl
3122	4-F	Me	i-Pr
3123	4-F	Me	t-Bu
3124	4-F	Me	c-Hex
3125	4-F	Me	CH2CH2OMe
3126	4-F	Me	CH2CONH2
3127	4-F	Me	CH2CO2Me
3128	4-F	Me	CH(CH2Ph)CO2Me
3129	4-F	Me	CH2CH2NMe2
3130	4-F	Me	benzyl
3131	4-F	Me	phenethyl
3132	4-F	Me	2-(morpholin-1-yl)-Et
3133	4-F	2-F-Et	Ph
3134	4-F	2-F-Et	3-CN-Ph
3135	4-F	2-F-Et	3-COMe-Ph
3136	4-F	2-F-Et	3-CO2Me-Ph
3137	4-F	2-F-Et	3-CONH2-Ph
3138	4-F	2-F-Et	3-CONHMe-Ph
3139	4-F	2-F-Et	3-F-Ph
3140	4-F	2-F-Et	3-C1-Ph
3141	4-F	2-F-Et	3-Br-Ph
3142	4-F	2-F-Et	3-SO2NH2-Ph
3143	4-F	2-F-Et	3-SO2NHMe-Ph
3144	4-F	2-F-Et	3-CF3-Ph
3145	4-F	2-F-Et	3-OMe-Ph
3146	4-F	2-F-Et	3-SMe-Ph
3147	4-F	2-F-Et	3-SOMe-Ph
3148	4-F	2-F-Et	3-SO2Me-Ph
3149	4-F	2-F-Et	3-OH-Ph
3150	4-F	2-F-Et	3-CH2OH-Ph
3151	4-F	2-F-Et	3-CHOHMe-Ph
3152	4-F	2-F-Et	3-COH (Me) 2-Ph
3153	4-F	2-F-Et	3-Me-Ph
3154	4-F	2-F-Et	3-He-FH 3-Et-Ph
3155	4-F	2-F-Et	3-iPr-Ph
3156	4-F	2-F-Et	3-tBu-Ph
3157	4-F	2-F-Et	3-CBU-PH 3-CH2CO2Me-Ph
3158	4-F	2-F-Et	3-(1-piperidinyl)-Ph
3159	$\frac{4-F}{4-F}$	2-F-Et	3-(1-piperidiny1)-Ph 3-(1-pyrrolidiny1)-Ph
3160	4-F		
3161	4-F	2-F-Et 2-F-Et	3-(2-imidazolyl)-Ph
			3-(1-imidazoly1)-Ph
3162	4-F	2-F-Et	3-(2-thiazoly1)-Ph
3163	4-F	2-F-Et	3-(3-pyrazoly1)-Ph
3164	4-F	2-F-Et	3-(1-pyrazolyl)-Ph
3165	4-F	2-F-Et	3-(5-Me-1-tetrazolyl)-Ph
3166	4-F	2-F-Et	3-(1-Me-5-tetrazolyl)-Ph
3167	4-F	2-F-Et	3-(2-pyridyl)-Ph

3168	4-F	2-F-Et	3-(2-thienyl)-Ph
3169	4-F	2-F-Et	3-(2-furanyl)-Ph
3170	4-F	2-F-Et	4-CN-Ph
3171	4-F	2-F-Et	4-COMe-Ph
3172	4-F	2-F-Et	
3173	4-F	2-F-Et	4-CO2Me-Ph
3174		2-F-Et	4-CONH2-Ph
3175	4-F		4-CONHMe-Ph
	4-F	2-F-Et	4-CONHPh-Ph
3176	4-F	2-F-Et	4-F-Ph
3177	4-F	2-F-Et	4-Cl-Ph
3178	4-F	2-F-Et	4-Br-Ph
3179	4-F	2-F-Et	4-SO2NH2-Ph
3180	4-F	2-F-Et	4-SO2NHMe-Ph
3181	4-F	2-F-Et	4-CF3-Ph
3182	4-F	2-F-Et	4-OMe-Ph
3183	4-F	2-F-Et	4-SMe-Ph
3184	4-F	2-F-Et	4-SOMe-Ph
3185	4-F	2-F-Et	4-SO2Me-Ph
3186	4-F	2-F-Et	4-OH-Ph
3187	4-F	2-F-Et	4-CH2OH-Ph
3188	4-F	2-F-Et	4-CHOHMe-Ph
3189	4-F	2-F-Et	4-COH (Me) 2-Ph
3190	4-F	2-F-Et	4-Me-Ph
3191	4-F	2-F-Et	4-Et-Ph
3192	4-F	2-F-Et	4-iPr-Ph
3193	4-F	2-F-Et	4-tBu-Ph
3194	4-F	2-F-Et	4-CH2CO2Me-Ph
3195	4-F	2-F-Et	4-(1-piperidinyl)-Ph
3196	4-F	2-F-Et	4-(1-pyrrolidinyl)-Ph
3197	4-F	2-F-Et	4-(2-imidazolyl)-Ph
3198	4-F	2-F-Et	4-(1-imidazolyl)-Ph
3199	4-F	2-F-Et	4-(2-thiazolyl)-Ph
3200	4-F	2-F-Et	4-(3-pyrazolyl)-Ph
3201	4-F	2-F-Et	4-(1-pyrazolyl)-Ph
3202	4-F	2-F-Et	4-(5-Me-1-tetrazoly1)-Ph
3203	4-F	2-F-Et	4-(1-Me-5-tetrazoly1)-Ph
3204	4-F	2-F-Et	4-(2-pyridyl)-Ph
3205	4-F	2-F-Et	4-(2-thienyl)-Ph
3206	4-F	2-F-Et	4-(2-furany1)-Ph
3207	4-F	2-F-Et	2-CN-Ph
3208	4-F	2-F-Et	2-COMe-Ph
3209	4-F	2-F-Et	2-CO2Me-Ph
3210	4-F	2-F-Et	2-CONH2-Ph
3211	4-F	2-F-Et	2-CONHMe-Ph
3212	4-F	2-F-Et	2-F-Ph
3213	4-F	2-F-Et	2-P-PH 2-C1-Ph
3214	4-F	2-F-Et	2-C1-Ph 2-Br-Ph
3215	4-F	2-F-Et	2-SI-PH 2-SO2NH2-Ph
3215	4-F		2-SO2NH2-Ph 2-SO2NHMe-Ph
3217		2-F-Et	
	4-F	2-F-Et	2-CF3-Ph
3218	4-F	2-F-Et	2-OMe-Ph

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3219	4-F	2-F-Et	2-SMe-Ph
3220	4-F	2-F-Et	2-SOMe-Ph
3221	4-F	2-F-Et	2-SO2Me-Ph
3222	4-F	2-F-Et	2-0H-Ph
3223	4-F	2-F-Et	2-CH2OH-Ph
3224	4-F	2-F-Et	2-CHOHMe-Ph
3225	4-F	2-F-Et	2-COH (Me) 2-Ph
3226	4-F	2-F-Et	2-Me-Ph
3227	4-F	2-F-Et	2-Et-Ph
3228	4-F	2-F-Et	2-iPr-Ph
3229	4-F	2-F-Et	2-tBu-Ph
3230	4-F	2-F-Et	2-CH2CO2Me-Ph
3231	4-F	2-F-Et	2-(1-piperidiny1)-Ph
3232	4-F	2-F-Et	2-(1-pyrrolidinyl)-Ph
3233	4-F	2-F-Et	2-(2-imidazolyl)-Ph
3234	4-F	2-F-Et	2-(1-imidazolyl)-Ph
3235	4-F	2-F-Et	2-(2-thiazolyl)-Ph
3236	4-F	2-F-Et	2-(2-chiazoly1)-Ph 2-(3-pyrazoly1)-Ph
3237	4-F	2-F-Et	2-(3-pyrazoly1)-Ph 2-(1-pyrazoly1)-Ph
3238	4-F	2-F-Et	
3239	4-F	2-F-Et	2-(5-Me-1-tetrazoly1)-Ph
3240	4-F	2-F-Et	2-(1-Me-5-tetrazolyl)-Ph
			2-(2-pyridyl)-Ph
3241	4-F	2-F-Et	2-(2-thienyl)-Ph
3242	4-F	2-F-Et	2-(2-furany1)-Ph
3243	4-F	2-F-Et	2,4-diF-Ph
3244	4-F	2-F-Et	2,5-diF-Ph
3245	4-F	2-F-Et	2,6-diF-Ph
3246	4-F	2-F-Et	3,4-diF-Ph
3247	4-F	2-F-Et	3,5-diF-Ph
3248	4-F	2-F-Et	2,4-diCl-Ph
3249	4-F	2-F-Et	2,5-diCl-Ph
3250	4-F	2-F-Et	2,6-diCl-Ph
3251	4-F	2-F-Et	3,4-diCl-Ph
3252	4-F	2-F-Et	3,5-diCl-Ph
3253	4-F	2-F-Et	3,4-diCF3-Ph
3254	4-F	2-F-Et	3,5-diCF3-Ph
3255	4-F	2-F-Et	5-Cl-2-MeO-Ph
3256	4-F	2-F-Et	5-C1-2-Me-Ph
3257	4-F	2-F-Et	2-F-5-Me-Ph
3258	4-F	2-F-Et	3-F-5-morpholino-Ph
3259	4-F	2-F-Et	3,4-OCH2O-Ph
3260	4-F	2-F-Et	3,4-OCH2CH2O-Ph
3261	4-F	2-F-Et	2-MeO-5-CONH2-Ph
3262	4-F	2-F-Et	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
3263	4-F	2-F-Et	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
3264	4-F	2-F-Et	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
3265	4-F	2-F-Et	1-naphthyl
3266	4-F	2-F-Et	2-naphthyl
3267	4-F	2-F-Et	2-haphthyl 2-thienyl
3268	4-F	2-F-Et	3-thienyl
3269	4-F	2-F-Et	2-furanyl
3203	- T - F	Z-r-Et	Z-LuLany L

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3270_	4-F	2-F-Et	3-furanyl
3271	4-F	2-F-Et	2-pyridyl
3272	4-F	2-F-Et	3-pyridyl
3273	4-F	2-F-Et	4-pyridyl
3274	4-F	2-F-Et	2-indolyl
3275	4-F	2-F-Et	3-indolyl
3276	4-F	2-F-Et	5-indolyl
3277	4-F	2-F-Et	6-indolyl
3278	4-F	2-F-Et	3-indazolyl
3279	4-F	2-F-Et	5-indazolyl
3280	4-F	2-F-Et	6-indazolyl
3281	4-F	2-F-Et	2-imidazolyl
3282	4-F	2-F-Et	3-isoxazoyl
3283	4-F	2-F-Et	3-pyrazolyl
3284	4-F	2-F-Et	2-thiadiazolyl
3285	4-F	2-F-Et	2-thiazolyl
3286	4-F	2-F-Et	5-Ac-4-Me-2-thiazolyl
3287	4-F	2-F-Et	5-tetrazolyl
3288	4-F	2-F-Et	2-benzimidazolyl
3289	4-F	2-F-Et	5-benzimidazolyl
3290	4-F	2-F-Et	2-benzothiazolyl
3291	4-F	2-F-Et	5-benzothiazolyl
3292	4-F	2-F-Et	2-benzoxazolyl
3293	4-F	2-F-Et	5-benzoxazolyl
3294	4-F	2-F-Et	1-adamantyl
3295	4-F	2-F-Et	2-adamantyl
3296	4-F	2-F-Et	i-Pr
3297	4-F	2-F-Et	t-Bu
3298	4-F	2-F-Et	c-Hex
3299	4-F	2-F-Et	CH2CH2OMe
3300	4-F	2-F-Et	CH2CONH2
3301	4-F	2-F-Et	CH2CO2Me
3302	4-F	2-F-Et	CH (CH2Ph) CO2Me
3303	4-F	2-F-Et	CH2CH2NMe2
3304	4-F	2-F-Et	benzyl
3305	4-F	2-F-Et	phenethyl
3306	4-F	2-F-Et	2-(morpholin-1-yl)-Et
3307	4-F	CO2Me	Ph
3308	4-F	CO2Me	3-CN-Ph
3309	4-F	CO2Me	3-COMe-Ph
3310	4-F	CO2Me	3-CO2Me-Ph
3311	4-F	CO2Me	3-CONH2-Ph
3312	4-F	CO2Me	3-CONHZ-FH 3-CONHMe-Ph
3313	4-F	CO2Me	3-F-Ph
3314	4-F	CO2Me	3-E-Ph
3315	4-F	CO2Me	3-Br-Ph
3316	4-F	CO2Me	
3317	4-F		3-SO2NH2-Ph
3318		CO2Me	3-SO2NHMe-Ph
	4-F	CO2Me	3-CF3-Ph
3319	4-F	CO2Me	3-OMe-Ph
3320	4-F	CO2Me	3-SMe-Ph

3321	4-F	CO2Me	3-SOMe-Ph
3322	4-F	CO2Me	3-SO2Me-Ph
3323	4-F	CO2Me	3-OH-Ph
3324	4-F	CO2Me	3-CH2OH-Ph
3325	4-F	CO2Me	3-CHOHMe-Ph
3326	4-F	CO2Me	3-CHOHME-PH 3-COH (Me) 2-Ph
3326	4-F	CO2Me	
3328	4-F		3-Me-Ph
3328	4-F	CO2Me	3-Et-Ph
3330	4-F	CO2Me	3-iPr-Ph
		CO2Me	3-tBu-Ph
3331	4-F	CO2Me	3-CH2CO2Me-Ph
3332	4-F	CO2Me	3-(1-piperidinyl)-Ph
3333	4-F	CO2Me	3-(1-pyrrolidinyl)-Ph
3334	4-F	CO2Me	3-(2-imidazolyl)-Ph
3335	4-F	CO2Me	3-(1-imidazolyl)-Ph
3336	4-F	CO2Me	3-(2-thiazolyl)-Ph
3337	4-F	CO2Me	3-(3-pyrazolyl)-Ph
3338	4-F	CO2Me	3-(1-pyrazolyl)-Ph
3339	4-F	CO2Me	3-(5-Me-1-tetrazoly1)-Ph
3340	4-F	CO2Me	3-(1-Me-5-tetrazolyl)-Ph
3341	4-F	CO2Me	3-(2-pyridyl)-Ph
3342	4-F	CO2Me	3-(2-thienyl)-Ph
3343	4-F	CO2Me	3-(2-furany1)-Ph
3344	4-F	CO2Me	4-CN-Ph
3345	4-F	CO2Me	4-COMe-Ph
3346	4-F	CO2Me	4-CO2Me-Ph
3347	4-F	CO2Me	4-CONH2-Ph
3348	4-F	CO2Me	4-CONHMe-Ph
3349	4-F	CO2Me	4-CONHPh-Ph
3350	4-F	CO2Me	4-F-Ph
3351	4-F	CO2Me	4-C1-Ph
3352	4-F	CO2Me	4-Br-Ph
3353	4-F	CO2Me	4-SO2NH2-Ph
3354	4-F	CO2Me	4-SO2NHMe-Ph
3355	4-F	CO2Me	4-CF3-Ph
3356	4-F	CO2Me	4-OMe-Ph
3357	4-F	CO2Me	4-SMe-Ph
3358	4-F	CO2Me	4-SOMe-Ph
3359	4-F	CO2Me	4-SO2Me-Ph
3360	4-F	CO2Me	4-OH-Ph
3361	4-F	CO2Me	4-CH2OH-Ph
3362	4-F	CO2Me	4-CHOHMe-Ph
3363	4-F	CO2Me	4-COH (Me) 2-Ph
3364	4-F	CO2Me	4-Me-Ph
3365	4-F	CO2Me	4-Et-Ph
3366	4-F	CO2Me	4-iPr-Ph
3367	4-F	CO2Me	4-tBu-Ph
3368	4-F	CO2Me	4-CH2CO2Me-Ph
3369_	4-F	CO2Me	4-(1-piperidinyl)-Ph
3370	4-F	CO2Me	4-(1-pyrrolidinyl)-Ph
3371	4-F	CO2Me	4-(2-imidazoly1)-Ph

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3372	4-F	CO2Me	4-(1-imidazolyl)-Ph
3373	4-F	CO2Me	4-(2-thiazolyl)-Ph
3374	4-F	CO2Me	4-(3-pyrazolyl)-Ph
3375	4-F	CO2Me	4-(1-pyrazolyl)-Ph
3376	4-F	CO2Me	4-(5-Me-1-tetrazoly1)-Ph
3377	4-F	CO2Me	4-(1-Me-5-tetrazolyl)-Ph
3378	4-F	CO2Me	4-(2-pyridyl)-Ph
3379	4-F	CO2Me	4-(2-thienyl)-Ph
3380	4-F	CO2Me	4-(2-furanyl)-Ph
3381	4-F	CO2Me	2-CN-Ph
3382	4-F	CO2Me	2-COMe-Ph
3383	4-F	CO2Me	2-CO2Me-Ph
3384	4-F	CO2Me	2-CONH2-Ph
3385	4-F	CO2Me	2-CONHMe-Ph
3386	4-F	CO2Me	2-F-Ph
3387	4-F	CO2Me	2-C1-Ph
3388	4-F	CO2Me	2-Br-Ph
3389	4-F	CO2Me	2-SO2NH2-Ph
3390	4-F	CO2Me	2-SO2NHMe-Ph
3391	4-F	CO2Me	2-CF3-Ph
3392	4-F	CO2Me	2-OMe-Ph
3393	4-F	CO2Me	2-SMe-Ph
3394	4-F	CO2Me	2-SOMe-Ph
3395	4-F	CO2Me	2-SO2Me-Ph
3396	4-F	CO2Me	2-OH-Ph
3397	4-F	CO2Me	2-CH2OH-Ph
3398	4-F	CO2Me	2-CHOHMe-Ph
3399	4-F	CO2Me	2-COH (Me) 2-Ph
3400	4-F	CO2Me	2-Me-Ph
3401	4-F	CO2Me	2-Et-Ph
3402	4-F	CO2Me	2-iPr-Ph
3403	4-F	CO2Me	2-tBu-Ph
3404	4-F	CO2Me	2-CH2CO2Me-Ph
3405	4-F	CO2Me	2-(1-piperidinyl)-Ph
3406	4-F	CO2Me	2-(1-pyrrolidinyl)-Ph
3407	4-F	CO2Me	2-(2-imidazolyl)-Ph
3408	4-F	CO2Me	2-(1-imidazolyl)-Ph
3409	4-F	CO2Me	2-(2-thiazolyl)-Ph
3410	4-F	CO2Me	2-(3-pyrazolyl)-Ph
3411	4-F	CO2Me	2-(1-pyrazoly1)-Ph
3412	4-F	CO2Me	2-(5-Me-1-tetrazolyl)-Ph
3413	4-F	CO2Me	2-(1-Me-5-tetrazolyl)-Ph
3414	4-F	CO2Me	2-(2-pyridyl)-Ph
3415	4-F	CO2Me	2-(2-thienyl)-Ph
3416	4-F	CO2Me	2-(2-threny1)-Ph
3417	4-F	CO2Me	2,4-dif-Ph
3418	4-F	CO2Me	2,4-dir-Fh 2,5-dir-Ph
3419	4-F	CO2Me	2,5-dir-Ph 2,6-dir-Ph
3420	4-F		2,6-dif-Ph 3,4-dif-Ph
3421	4-F	CO2Me	
		CO2Me	3,5-diF-Ph
3422	4-F	CO2Me	2,4-diCl-Ph

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3423	4-F	CO2Me	2,5-diCl-Ph
3424	4-F	CO2Me	2,6-diCl-Ph
3425	4-F	CO2Me	3,4-diCl-Ph
3426	4-F	CO2Me	3,5-diCl-Ph
3427	4-F	CO2Me	3,4-diCF3-Ph
3428	4-F	CO2Me	3,5-diCF3-Ph
3429	4-F	CO2Me	5-Cl-2-MeO-Ph
3430	4-F	CO2Me	5-Cl-2-Me-Ph
3431	4-F	CO2Me	2-F-5-Me-Ph
3432	4-F	CO2Me	3-F-5-morpholino-Ph
3433	4-F	CO2Me	3,4-OCH2O-Ph
3434	4-F	CO2Me	3,4-OCH2CH2O-Ph
3435	4-F	CO2Me	2-MeO-5-CONH2-Ph
3436	4-F	CO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
3437	4-F	CO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
3438	4-F	CO2Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
3439	4-F	CO2Me	1-naphthyl
3440	4-F	CO2Me	2-naphthyl
3441	4-F	CO2Me	2-thienyl
3442	4-F	CO2Me	3-thienyl
3443	4-F	CO2Me	2-furanyl
3444	4-F	CO2Me	3-furanyl
3445	4-F	CO2Me	2-pyridyl
3446	4-F	CO2Me	3-pyridyl
3447	4-F	CO2Me	4-pyridyl
3448	4-F	CO2Me	2-indolyl
3449	4-F	CO2Me	3-indolyl
3450	4-F	CO2Me	5-indolyl
3451	4-F	CO2Me	6-indolyl
3452	4-F	CO2Me	3-indazolyl
3453	4-F	CO2Me	5-indazolyl
3454	4-F	CO2Me	6-indazolyl
3455	4-F	CO2Me	2-imidazolyl
3456	4-F	CO2Me	3-isoxazoyl
3457	4-F	CO2Me	3-pyrazolyl
3458	4-F	CO2Me	2-thiadiazolyl
3459	4-F	CO2Me	2-thiazolyl
3460	4-F	CO2Me	5-Ac-4-Me-2-thiazolyl
3461	4-F	CO2Me	5-tetrazolyl
3462	4-F	CO2Me	2-benzimidazolyl
3463	4-F	CO2Me	5-benzimidazolyl
3464	4-F	CO2Me	2-benzothiazolyl
3465	4-F	CO2Me	5-benzothiazolyl
3466	4-F	CO2Me	2-benzoxazolyl
3467	4-F	CO2Me	5-benzoxazolyl
3468	4-F	CO2Me	1-adamantyl
3469	4-F	CO2Me	2-adamantyl
3470	4-F	CO2Me	i-Pr
3471	4-F	CO2Me	t-Bu
3472	4-F	CO2Me	c-Hex
3473	4-F	CO2Me	CH2CH2OMe
			Q142 Q142 Q14Q

3474	4-F	CO2Me	CH2CONH2
3475	4-F	CO2Me	CH2CO2Me
3476	4-F	CO2Me	CH(CH2Ph)CO2Me
3477	4-F	CO2Me	CH2CH2NMe2
3478	4-F	CO2Me	benzyl
3479	4-F	CO2Me	phenethyl
3480	4-F	CO2Me	2-(morpholin-1-yl)-Et
3481	4-F	Ac	Ph
3482	4-F	Ac	3-CN-Ph
3483	4-F	Ac	3-COMe-Ph
3484	4-F	Ac	3-CO2Me-Ph
3485	4-F	Ac	3-CONH2-Ph
3486	4-F	Ac	3-CONHMe-Ph
3487	4-F	Ac	3-F-Ph
3488	4-F	Ac	3-Cl-Ph
3489	4-F	Ac	3-Br-Ph
3490	4-F	Ac	3-SO2NH2-Ph
3491	4-F	Ac	3-SO2NHMe-Ph
3492	4-F	Ac	3-CF3-Ph
3493	4-F	Ac	3-OMe-Ph
3494	4-F	Ac	3-SMe-Ph
3495	4-F	Ac	3-SOMe-Ph
3496	4-F	Ac	3-SO2Me-Ph
3497	4-F	Ac	3-OH-Ph
3498	4-F	Ac	3-CH2OH-Ph
3499	4-F	Ac	3-CHOHMe-Ph
3500	4-F	Ac	3-COH (Me) 2-Ph
3501	4-F	Ac	3-Me-Ph
3502	4-F	Ac	3-Et-Ph
3503	4-F	ÀC	3-iPr-Ph
3504	4-F	Ac	3-tBu-Ph
3505	4-F	Ac	3-CH2CO2Me-Ph
3506	4-F	Ac	3-(1-piperidinyl)-Ph
3507	4-F	Ac	3-(1-pyrrolidinyl)-Ph
3508	4-F	Ac	3-(2-imidazolyl)-Ph
3509	4-F	Ac	3-(1-imidazolyl)-Ph
3510	4-F	Ac	3-(2-thiazoly1)-Ph
3511	4-F	Ac	3-(3-pyrazolyl)-Ph
3512	4-F	Ac	3-(1-pyrazolyl)-Ph
3513	4-F	Ac	3-(5-Me-1-tetrazoly1)-Ph
3514	4-F	Ac	3-(1-Me-5-tetrazoly1)-Ph
3515	4-F	Ac	3-(2-pyridyl)-Ph
3516	4-F	Ac	3-(2-thienyl)-Ph
3517	4-F	Ac	3-(2-furanyl)-Ph
3518	4-F	Ac	4-CN-Ph
3519	4-F	Ac	4-COMe-Ph
3520	4-F	Ac	4-CO2Me-Ph
3521	4-F	Ac	4-CONH2-Ph
3522	4-F	Ac	4-CONHMe-Ph
3523	4-F	Ac	4-CONHME-Ph
3524	4-F	Ac	4-F-Ph
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3535	4 77	3 -	4 01 74
3525	4-F	Ac	4-Cl-Ph
3526	4-F	Ac	4-Br-Ph
3527	4-F	Ac	4-SO2NH2-Ph
3528	4-F	Ac	4-SO2NHMe-Ph
3529	4-F	Ac	4-CF3-Ph
3530	4-F	Ac	4-OMe-Ph
3531	4-F	Ac	4-SMe-Ph
3532	4-F	Ac	4-SOMe-Ph
3533	4-F	Ac	4-SO2Me-Ph
3534	4-F	Ac	4-OH-Ph
3535	4-F	Ac	4-CH2OH-Ph
3536	4-F	Ac	4-CHOHMe-Ph
3537	4-F	Ac	4-COH (Me) 2-Ph
3538	4-F	Ac	4-Me-Ph
3539	4-F	Ac	4-Et-Ph
3540	4-F	Ac	4-iPr-Ph
3541	4-F	Ac	4-tBu-Ph
3542	4-F	Ac	4-CH2CO2Me-Ph
3543	4-F	Ac	4-(1-piperidinyl)-Ph
3544	4-F	Ac	4-(1-pyrrolidinyl)-Ph
3545	4-F	Ac	4-(2-imidazolyl)-Ph
3546	4-F	Ac	4-(1-imidazolyl)-Ph
3547	4-F	Ac	4-(2-thiazolyl)-Ph
3548	4-F	Ac	4-(3-pyrazoly1)-Ph
3549	4-F	Ac	4-(1-pyrazolyl)-Ph
3550	4-F	Ac	4-(5-Me-1-tetrazolyl)-Ph
3551	4-F	Ac	4-(1-Me-5-tetrazolyl)-Ph
3552	4-F	Ac	4-(2-pyridyl)-Ph
3553	4-F	Ac	4-(2-thienyl)-Ph
3554	4-F	Ac	4-(2-furanyl)-Ph
3555	4-F	Ac	2-CN-Ph
3556	4-F	Ac	2-COMe-Ph
3557	4-F	Ac	2-CO2Me-Ph
3558	4-F	Ac	2-CONH2-Ph
3559	4-F	Ac	2-CONHMe-Ph
3560	4-F	Ac	2-F-Ph
3561	4-F	Ac	2-Cl-Ph
3562	4-F	Ac	2-Br-Ph
3563	4-F	Ac	2-SO2NH2-Ph
3564	4-F	Ac	2-SO2NHMe-Ph
3565	4-F	Ac	2-CF3-Ph
3566	4-F	Ac	2-OMe-Ph
3567	4-F	Ac	2-SMe-Ph
3568	4-F	Ac	2-SOMe-Ph
3569	4-F	Ac	2-SO2Me-Ph
3570	4-F	Ac	2-OH-Ph
3571	4-F	Ac	2-CH2OH-Ph
3572	4-F	Ac	2-CHOHMe-Ph
3573	4-F	Ac	2-COH (Me) 2-Ph
3574	4-F	Ac	2-Me-Ph
3575	4-F	Ac	2-Et-Ph
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3576	4-F	Ac	2-iPr-Ph
3577	4-F	Ac	2-tBu-Ph
. 3578	4-F	Ac	2-CH2CO2Me-Ph
3579	4-F	Ac	2-(1-piperidinyl)-Ph
3580	4-F	Ac	2-(1-pyrrolidinyl)-Ph
3581	4-F	Ac	2-(2-imidazolyl)-Ph
3582	4-F	Ac	2-(1-imidazolyl)-Ph
3583	4-F	Ac	2-(2-thiazolyl)-Ph
3584	4-F	Ac	2-(3-pyrazolyl)-Ph
3585	4-F	Ac	2-(1-pyrazolyl)-Ph
3586	4-F	Ac	2-(5-Me-1-tetrazolyl)-Ph
3587	4-F	Ac	2-(1-Me-5-tetrazolyl)-Ph
3588	4-F	Ac	2-(2-pyridy1)-Ph
3589	4-F	Ac	2-(2-thienyl)-Ph
3590	4-F	Ac	2-(2-furanyl)-Ph
3591	4-F	Ac	2,4-diF-Ph
3592	4-F	Ac	2,5-diF-Ph
3593	4-F	Ac	2,6-diF-Ph
3594	4-F	Ac	3,4-diF-Ph
3595	4-F	Ac	3,5-diF-Ph
3596	4-F	Ac	2,4-diCl-Ph
3597	4-F	Ac	2,5-diCl-Ph
3598	4-F	Ac	2,6-diCl-Ph
3599	4-F	Ac	3,4-diCl-Ph
3600	4-F	Ac	3,5-diCl-Ph
3601	4-F	Ac	3,4-diCF3-Ph
3602	4-F	Ac	3,5-diCF3-Ph
3603	4-F	Ac	5-Cl-2-MeO-Ph
3604	4-F	Ac	5-Cl-2-Me-Ph
3605	4-F	Ac	2-F-5-Me-Ph
3606	4-F	Ac	3-F-5-morpholino-Ph
3607	4-F	Ac	3,4-OCH2O-Ph
3608	4-F	Ac	3,4-OCH2CH2O-Ph
3609	4-F	Ac	2-MeO-5-CONH2-Ph
3610	4-F	Ac	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
3611	4-F	Ac	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
3612	4-F	Ac	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
3613	4-F	Ac	1-naphthyl
3614	4-F	AC	2-naphthyl
3615	4-F	Ac	2-thienyl
3616	4-F	Ac	3-thienyl
3617	4-F	Ac	2-furanyl
3618	4-F	Ac	3-furanyl
3619	4-F	Ac	2-pyridyl
3620	4-F	Ac	3-pyridyl
3621	4-F	Ac	4-pyridyl
3622	4-F	Ac	2-indolyl
3623	4-F	Ac	3-indolyl
3624	4-F	Ac	5-indolyl
3625	4-F	Ac	6-indolyl
3626	4-F	Ac	3-indazolyl
2020			2 THUMBOTYT

3627	4-F	Ac	5-indazolyl
3628	4-F	Ac	6-indazolyl
3629	4-F	Ac	2-imidazolyl
3630	4-F	Ac	3-isoxazoyl
3631	4-F	Ac	3-pyrazolyl
3632	4-F	Ac	2-thiadiazolyl
3633	4-F	Ac	2-thiazolyl
3634	4-F	Ac	5-Ac-4-Me-2-thiazolyl
3635	4-F	Ac	5-tetrazolyl
3636	4-F	Ac	2-benzimidazolyl
3637	4-F	Ac	5-benzimidazolyl
3638	4-F	Ac	2-benzothiazolyl
3639	4-F	Ac	5-benzothiazolyl
3640	4-F	Ac	2-benzoxazolyl
3641	4-F	Ac	5-benzoxazolyl
3642	4-F	Ac	1-adamanty1
3643	4-F	Ac	2-adamantyl
3644	4-F	Ac	i-Pr
3645	4-F	Ac	t-Bu
3646	4-F	Ac	c-Hex
3647	4-F	Ac	CH2CH2OMe
3648	4-F	Ac	CH2CONH2
3649	4-F	Ac	CH2CO2Me
3650	4-F	Ac	CH(CH2Ph)CO2Me
3651	4-F	Ac	CH2CH2NMe2
3652	4-F	Ac	benzyl
3653	4-F	Ac	phenethyl
3654	4-F	Ac	2-(morpholin-1-yl)-Et
3655	4-F	COtBu	Ph
3656	4-F	COtBu	3-CN-Ph
3657	4-F	COtBu	3-COMe-Ph
3658	4-F	COtBu	3-CO2Me-Ph
3659	4-F	COtBu	3-CONH2-Ph
3660	4-F	COtBu	3-CONHMe-Ph
3661	4-F	COtBu	3-F-Ph
3662	4-F	COtBu	3-Cl-Ph
3663	4-F	COtBu	3-Br-Ph
3664	4-F	COtBu	3-SO2NH2-Ph
3665	4-F	COtBu	3-SO2NHMe-Ph
3666	4-F	COtBu	3-CF3-Ph
3667	4-F	COtBu	3-OMe-Ph
3668	4-F	COtBu	3-SMe-Ph
3669	4-F	COtBu	3-SOMe-Ph
3670	4-F	COtBu	3-SO2Me-Ph
3671	4-F	COtBu	3-OH-Ph
3672	4-F	COtBu	3-CH2OH-Ph
3673	4-F	COtBu	3-CHOHMe-Ph
3674	4-F	COtBu	3-COH (Me) 2-Ph
3675	4-F	COtBu	3-Me-Ph
3676	4-F	COtBu	3-Et-Ph
3677	4-F	COtBu	3-iPr-Ph
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3678	4-F	COtBu	3-tBu-Ph
3679	4-F	COtBu	3-CH2CO2Me-Ph
3680	4-F	COtBu	3-(1-piperidinyl)-Ph
3681	4-F	COtBu	3-(1-pyrrolidinyl)-Ph
3682	4-F	COtBu	3-(2-imidazolyl)-Ph
3683	4-F	COtBu	3-(1-imidazolyl)-Ph
3684	4-F	COtBu	3-(2-thiazolyl)-Ph
3685	4-F	COtBu	3-(3-pyrazolyl)-Ph
3686	4-F	COtBu	3-(1-pyrazolyl)-Ph
3687	4-F	COtBu	3-(5-Me-1-tetrazolyl)-Ph
3688	4-F	COtBu	3-(1-Me-5-tetrazolyl)-Ph
3689	4-F	COtBu	3-(2-pyridyl)-Ph
3690	4-F	COtBu	3-(2-thienyl)-Ph
3691	4-F	COtBu	3-(2-furanyl)-Ph
3692	4-F	COtBu	4-CN-Ph
3693	4-F	COtBu	4-COMe-Ph
3694	4-F	COtBu	4-CO2Me-Ph
3695	4-F	COtBu	4-CONH2-Ph
3696	4-F	COtBu	4-CONHMe-Ph
3697	4-F	COtBu	4-CONHPh-Ph
3698	4-F	COtBu	4-F-Ph
3699	4-F	COtBu	4-C1-Ph
3700	4-F	COtBu	4-Br-Ph
3701	4-F	COtBu	4-SO2NH2-Ph
3702	4-F	COtBu	4-SO2NHMe-Ph
3703	4-F	COtBu	4-CF3-Ph
3704	4-F	COtBu	4-OMe-Ph
3705	4-F	COtBu	4-SMe-Ph
3706	4-F	COtBu	4-SOMe-Ph
3707	4-F	COtBu	4-SO2Me-Ph
3708	4-F	COtBu	4-OH-Ph
3709	4-F	COtBu	4-CH2OH-Ph
3710	4-F	COtBu	4-CHOHMe-Ph
3711	4-F	COtBu	4-COH(Me)2-Ph
3712	4-F	COtBu	4-Me-Ph
3713	4-F	COtBu	4-Et-Ph
3714	4-F	COtBu	4-iPr-Ph
3715	4-F	COtBu	4-tBu-Ph
3716	4-F	COtBu	4-CH2CO2Me-Ph
3717	4-F	COtBu	4-(1-piperidinyl)-Ph
3718	4-F	COtBu	4-(1-pyrrolidinyl)-Ph
3719	4-F	COtBu	4-(2-imidazoly1)-Ph
3720	4-F	COtBu	4-(1-imidazolyl)-Ph
3721	4-F	COtBu	4-(2-thiazoly1)-Ph
3722	4-F	COtBu	4-(3-pyrazoly1)-Ph
3723	4-F	COtBu	4-(1-pyrazoly1)-Ph
3724	4-F	COtBu	4-(5-Me-1-tetrazolyl)-Ph
3725	4-F	COtBu	4-(1-Me-5-tetrazolyl)-Ph
3726	4-F	COtBu	4-(2-pyridyl)-Ph
3727	4-F	COtBu	4-(2-thienyl)-Ph
3728	4-F	COtBu	4-(2-furanyl)-Ph
		COUDU 1	4 (2 LULAHYI) FII

3729	4-F	COtBu	2-CN-Ph
3730	4-F	COtBu	2-COMe-Ph
3731	4-F	COtBu	2-CO2Me-Ph
3732	4-F	COtBu	2-CONH2-Ph
3733	4-F	COtBu	2-CONHMe-Ph
3734	4-F	COtBu	2-F-Ph
3735	4-F	COtBu	2-Cl-Ph
3736	4-F	COtBu	2-Br-Ph
3737	4-F	COtBu	2-SO2NH2-Ph
3738	4-F	COtBu	2-SO2NHMe-Ph
3739	4-F	COtBu	2-CF3-Ph
3740	4-F	COtBu	2-OMe-Ph
3741	4-F	COtBu	2-SMe-Ph
3742	4-F	COtBu	2-SOMe-Ph
3743	4-F	COtBu	2-SO2Me-Ph
3744	4-F	COtBu	2-OH-Ph
3745	4-F	COtBu	2-CH2OH-Ph
3746	4-F	COtBu	2-CHOHMe-Ph
3747	4-F	COtBu	2-COH (Me) 2-Ph
3748	4-F	COtBu	2-Me-Ph
3749	4-F	COtBu	2-Et-Ph
3750	4-F	COtBu	2-iPr-Ph
3751	4-F	COtBu	2-tBu-Ph
3752	4-F	COtBu	2-CH2CO2Me-Ph
3753	4-F	COtBu	2-(1-piperidinyl)-Ph
3754	4-F	COtBu	2-(1-pyrrolidinyl)-Ph
3755	4-F	COtBu	2-(2-imidazolyl)-Ph
3756	4-F	COtBu	2-(1-imidazolyl)-Ph
3757	4-F	COtBu	2-(2-thiazolyl)-Ph
3758	4-F	COtBu	2-(3-pyrazoly1)-Ph
3759	4-F	COtBu	2-(1-pyrazolyl)-Ph
3760	4-F	COtBu	2-(5-Me-1-tetrazolyl)-Ph
3761	4-F	COtBu	2-(1-Me-5-tetrazolyl)-Ph
3762	4-F	COtBu	2-(2-pyridyl)-Ph
3763	4-F	COtBu	2-(2-thienyl)-Ph
3764	4-F	COtBu	2-(2-furanyl)-Ph
3765	4-F	COtBu	2,4-diF-Ph
3766	4-F	COtBu	2,5-diF-Ph
3767	4-F	COtBu	2,6-diF-Ph
3768	4-F	COtBu	3,4-diF-Ph
3769	4-F	COtBu	3,5-diF-Ph
3770	4-F	COtBu	2,4-diCl-Ph
3771	4-F	COtBu	2,5-diCl-Ph
3772	4-F	COtBu	2,6-diCl-Ph
3773	4-F	COtBu	3,4-diCl-Ph
3774	4-F	COtBu	3,5-diCl-Ph
3775	4-F	COtBu	3,4-diCF3-Ph
3776	4-F	COtBu	3,5-diCF3-Ph
3777	4-F	COtBu	5-Cl-2-MeO-Ph
3778	4-F	COtBu	5-Cl-2-Me-Ph
3779	4-F	COtBu	2-F-5-Me-Ph

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3780	4-F	COtBu	3-F-5-morpholino-Ph
3781	4-F	COtBu	3,4-OCH2O-Ph
3782	4-F	COtBu	3,4-OCH2CH2O-Ph
3783	4-F	COtBu	2-MeO-5-CONH2-Ph
3784	4-F	COtBu	2-MeO-4-(1-Me-5-tetrazoly1)-Ph
3785	4-F	COtBu	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
3786	4-F	COtBu	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
3787	4-F	COtBu	1-naphthyl
3788	4-F	COtBu	2-naphthyl
3789	4-F	COtBu	2-thienyl
3790	4-F	COtBu	3-thienyl
3791	4-F	COtBu	2-furanyl
3792	4-F	COtBu	3-furanyl
3793	4-F	COtBu	2-pyridyl
3794	4-F	COtBu	3-pyridyl
3795	4-F	COtBu	4-pyridyl
3796	4-F	COtBu	2-indolyl
3797	4-F	COtBu	3-indoly1
3798	4-F	COtBu	5-indolyl
3799	4-F	COtBu	6-indolyl
3800	4-F	COtBu	3-indazolyl
3801	4-F	COtBu	5-indazolyl
3802	4-F	COtBu	6-indazolyl
3803	4-F	COtBu	2-imidazolyl
3804	4-F	COtBu	3-isoxazoyl
3805	4-F	COtBu	3-pyrazolyl
3806	4-F	COtBu	2-thiadiazolyl
3807	4-F	COtBu	2-thiazolyl
3808	4-F	COtBu	5-Ac-4-Me-2-thiazolyl
3809	4-F	COtBu	5-tetrazolyl
3810_	4-F	COtBu	2-benzimidazolyl
3811	4-F	COtBu	5-benzimidazolyl
3812	4-F	COtBu	2-benzothiazolyl
3813	4-F	COtBu	5-benzothiazolyl
3814	4-F	COtBu	2-benzoxazolyl
3815	4-F	COtBu	5-benzoxazolyl
3816	4-F	COtBu	1-adamantyl
3817	4-F	COtBu	2-adamantyl
3818	4-F	COtBu	i-Pr
3819	4-F	COtBu	t-Bu
3820	4-F	COtBu	c-Hex
3821	4-F	COtBu	CH2CH2OMe
3822	4-F	COtBu	CH2CONH2
3823	4-F	COtBu	CH2CO2Me
3824	4-F	COtBu	CH (CH2Ph) CO2Me
3825	4-F	COtBu	CH2CH2NMe2
3826	4-F	COtBu	benzyl
3827	4-F	COtBu	phenethyl
3828	4-F	COtBu	2-(morpholin-1-yl)-Et
3829	4-F	SO2Me	Ph
3830	4-F	SO2Me	3-CN-Ph
		لـــــــــــــــــــــــــــــــــــــ	

3831	4-F	SO2Me	3-COMe-Ph
3832	4-F	SO2Me	3-CO2Me-Ph
3833	4-F	SO2Me	3-CONH2-Ph
3834	4-F	SO2Me	3-CONHMe-Ph
3835	4-F	SO2Me	3-F-Ph
3836	4-F	SO2Me	3-Cl-Ph
3837	4-F	SO2Me	3-Br-Ph
3838	4-F	SO2Me	3-SO2NH2-Ph
3839	4-F	SO2Me	3-SO2NHMe-Ph
. 3840	4-F	SO2Me	3-CF3-Ph
3841	4-F	SO2Me	3-OMe-Ph
3842	4-F	SO2Me	3-SMe-Ph
3843	4-F	SO2Me	3-SOMe-Ph
3844	4-F	SO2Me	3-SO2Me-Ph
3845	4-F	SO2Me	3-OH-Ph
3846	4-F	SO2Me	3-CH2OH-Ph
3847	4-F	SO2Me	3-CHOHMe-Ph
3848	4-F	SO2Me	3-COH (Me) 2-Ph
3849	4-F	SO2Me	3-Me-Ph
3850	4-F	SO2Me	3-Et-Ph
3851	4-F	SO2Me	3-iPr-Ph
3852	4-F	SO2Me	3-tBu-Ph
3853	4-F	SO2Me	3-CH2CO2Me-Ph
3854	4-F	SO2Me	3-(1-piperidinyl)-Ph
3855	4-F	SO2Me	3-(1-pyrrolidinyl)-Ph
3856	4-F	SO2Me	3-(2-imidazolyl)-Ph
3857	4-F	SO2Me	3-(1-imidazolyl)-Ph
3858	4-F	SO2Me	3-(2-thiazolyl)-Ph
3859	4-F	SO2Me	3-(3-pyrazolyl)-Ph
3860	4-F	SO2Me	3-(1-pyrazolyl)-Ph
3861	4-F	SO2Me	3-(5-Me-1-tetrazolyl)-Ph
3862	4-F	SO2Me	3-(1-Me-5-tetrazolyl)-Ph
3863	4-F	SO2Me	3-(2-pyridyl)-Ph
3864	4-F	SO2Me	3-(2-thienyl)-Ph
3865	4-F	SO2Me	3-(2-furanyl)-Ph
3866	4-F	SO2Me	4-CN-Ph
3867	4-F	SO2Me	4-COMe-Ph
3868	4-F	SO2Me	4-CO2Me-Ph
3869	4-F	SO2Me	4-CONH2-Ph
3870	4-F	SO2Me	4-CONHMe-Ph
3871	4-F	SO2Me	4-CONHPh-Ph
3872	4-F	SO2Me	4-F-Ph
3873	4-F	SO2Me	4-C1-Ph
3874	4-F	SO2Me	4-Br-Ph
3875	4-F	SO2Me	4-SO2NH2-Ph
3876	4-F	SO2Me	4-SO2NHMe-Ph
3877	4-F	SO2Me	4-CF3-Ph
3878	4-F	SO2Me	4-OMe-Ph
3879	4-F	SO2Me	4-SMe-Ph
3880	4-F	SO2Me	4-SOMe-Ph
3881	4-F	SO2Me	4-SO2Me-Ph

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3882	4-F	SO2Me	4-OH-Ph
3883	4-F	SO2Me	4-CH2OH-Ph
3884	4-F	SO2Me	4-CHOHMe-Ph
3885	4-F	SO2Me	4-COH (Me) 2-Ph
3886	4-F	SO2Me	4-Me-Ph
3887	4-F	SO2Me	4-Et-Ph
3888	4-F	SO2Me	4-iPr-Ph
3889	4-F	SO2Me	4-tBu-Ph
3890	4-F	SO2Me	4-CH2CO2Me-Ph
3891	4-F	SO2Me	4-(1-piperidinyl)-Ph
3892	4-F	SO2Me	4-(1-pyrrolidinyl)-Ph
3893	4-F	SO2Me	4-(2-imidazolyl)-Ph
3894	4-F	SO2Me	4-(1-imidazolyl)-Ph
3895	4-F	SO2Me	4-(2-thiazolyl)-Ph
3896	4-F	SO2Me	4-(3-pyrazolyl)-Ph
3897	4-F	SO2Me	4-(1-pyrazolyl)-Ph
3898	4-F	SO2Me	4-(5-Me-1-tetrazolyl)-Ph
3899	4-F	SO2Me	4-(1-Me-5-tetrazolyl)-Ph
3900	4-F	SO2Me	4-(2-pyridyl)-Ph
3901	4-F	SO2Me	4-(2-thienyl)-Ph
3902	4-F	SO2Me	4-(2-furanyl)-Ph
3903	4-F	SO2Me	2-CN-Ph
3904	4-F	SO2Me	2-COMe-Ph
3905	4-F	SO2Me	2-CO2Me-Ph
3906	4-F	SO2Me	2-CONH2-Ph
3907	4-F	SO2Me	2-CONHMe-Ph
3908	4-F	SO2Me	2-F-Ph
3909	4-F	SO2Me	2-C1-Ph
3910	4-F	SO2Me	2-Br-Ph
3911	4-F	SO2Me	2-SO2NH2-Ph
3912	4-F	SO2Me	2-SO2NHMe-Ph
3913	4-F	SO2Me	2-CF3-Ph
3914	4-F	SO2Me	2-OMe-Ph
3915	4-F	SO2Me	2-SMe-Ph
3916	4-F	SO2Me	2-SOMe-Ph
3917	4-F	SO2Me	2-SO2Me-Ph
3918	4-F	SO2Me	2-OH-Ph
3919	4-F	SO2Me	2-CH2OH-Ph
3920	4-F	SO2Me	2-CHOHMe-Ph
3921	4-F	SO2Me	2-COH (Me) 2-Ph
3922	4-F	SO2Me	2-Me-Ph
3923	4-F	SO2Me	2-Et-Ph
3924	4-F	SO2Me	2-iPr-Ph
3925	4-F	SO2Me	2-1F1-F11 2-tBu-Ph
3926	4-F	SO2Me	2-CH2CO2Me-Ph
3927	4-F		
		SO2Me	2-(1-piperidiny1)-Ph
3928	4-F	SO2Me	2-(1-pyrrolidinyl)-Ph
3929	4-F	SO2Me	2-(2-imidazolyl)-Ph
3930	4-F	SO2Me	2-(1-imidazolyl)-Ph
3931	4-F	SO2Me	2-(2-thiazolyl)-Ph
3932	4-F	SO2Me	2-(3-pyrazoly1)-Ph

3933 4-F SO2Me 2-(1-pyrazolyl)-Ph 3934 4-F SO2Me 2-(5-Me-1-tetrazolyl)-Ph 3935 4-F SO2Me 2-(1-Me-5-tetrazolyl)-Ph 3936 4-F SO2Me 2-(1-Me-5-tetrazolyl)-Ph 3937 4-F SO2Me 2-(2-thienyl)-Ph 3938 4-F SO2Me 2-(2-thienyl)-Ph 3938 4-F SO2Me 2-(2-thienyl)-Ph 3939 4-F SO2Me 2-(3-furanyl)-Ph 3940 4-F SO2Me 2,5-diF-Ph 3941 4-F SO2Me 3,4-diF-Ph 3942 4-F SO2Me 3,5-diC1-Ph 3944 4-F SO2Me 3,5-diC1-Ph 3945 4-F SO2Me 2,5-diC1-Ph 3945 4-F SO2Me 2,5-diC1-Ph 3946 4-F SO2Me 3,5-diC1-Ph 3947 4-F SO2Me 3,5-diC1-Ph 3948 4-F SO2Me 3,5-diC1-Ph 3948 4-F SO2Me 3,5-diC1-Ph 3950 4-F SO2Me 3,5-diCF3-Ph 3950 4-F SO2Me 3,5-diCF3-Ph 3951 4-F SO2Me 3,5-diCF3-Ph 3951 4-F SO2Me 3,5-diCF3-Ph 3952 4-F SO2Me 3,5-diCF3-Ph 3953 4-F SO2Me 3,5-diCF3-Ph 3955 4-F SO2Me 3-F-5-morpholino-Ph 3955 4-F SO2Me 3-F-5-morpholino-Ph 3956 4-F SO2Me 3-F-5-morpholino-Ph 3957 4-F SO2Me 3-F-5-morpholino-Ph 3959 4-F SO2Me 3-F-5-morpholino-Ph 3959 4-F SO2Me 3-F-5-morpholino-Ph 3959 4-F SO2Me 3-F-5-morpholino-Ph 3959 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 3961 4-F SO2Me 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 3961 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 3964 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 3964 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazolyl)-				
3935 4-F SO2Me				
3936				
3937				
3938 4-F SO2Me 2-(2-furany1)-Ph 3939 4-F SO2Me 2,4-diF-Ph 3940 4-F SO2Me 2,5-diF-Ph 3941 4-F SO2Me 3,4-diF-Ph 3942 4-F SO2Me 3,5-diF-Ph 3942 4-F SO2Me 3,5-diF-Ph 3944 4-F SO2Me 3,5-diF-Ph 3945 4-F SO2Me 2,4-diCl-Ph 3945 4-F SO2Me 2,5-diCl-Ph 3946 4-F SO2Me 2,5-diCl-Ph 3946 4-F SO2Me 3,4-diCl-Ph 3948 4-F SO2Me 3,5-diCl-Ph 3949 4-F SO2Me 3,5-diCl-Ph 3949 4-F SO2Me 3,5-diCl-Ph 3951 4-F SO2Me 3,5-diCl-Ph 3951 4-F SO2Me 3,5-diCl-Ph 3951 4-F SO2Me 3,5-diCl-Ph 3952 4-F SO2Me 3,5-diCP3-Ph 3953 4-F SO2Me 3-F-5-morpholino-Ph 3955 4-F SO2Me 3-F-5-morpholino-Ph 3955 4-F SO2Me 3,4-OCH2O-Ph 3957 4-F SO2Me 3,4-OCH2O-Ph 3957 4-F SO2Me 3,4-OCH2O-Ph 3958 4-F SO2Me 3,4-OCH2O-Ph 3958 4-F SO2Me 3-MeO-5-CONH2-Ph 3950 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3960 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3961 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3962 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3963 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3964 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3967 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3967 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3967 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3967 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3966 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3967 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 3968 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-1 3977 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-1 3979 4-F SO2Me 3-CONH2-5-(1-Me-5-tetrazoly1)-1 3979 4-F SO2Me 3-CONH				
3939 4-F SOZMe			SO2Me	2-(2-thienyl)-Ph
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3982 4-F SO2Me 5-Ac-4-Me-2-thiazolyl		4-F		
3983 4-F SO2Me 5-tetrazolyl		4-F		5-Ac-4-Me-2-thiazolyl
	3983	4-F	SO2Me	5-tetrazolyl

3984	4-F	SO2Me	2-benzimidazolyl
3985	4-F	SO2Me	5-benzimidazolyl
3986	4-F	SO2Me	2-benzothiazolyl
3987	4-F	SO2Me	5-benzothiazolyl
3988	4-F	SO2Me	2-benzoxazolyl
3989	4-F	SO2Me	5-benzoxazolyl
3990	4-F	SO2Me	1-adamantyl
3991	4-F	SO2Me	2-adamantyl
3992	4-F	SO2Me	i-Pr
3993	4-F	SO2Me	t-Bu
3994	4-F	SO2Me	c-Hex
3995	4-F	SO2Me	CH2CH2OMe
3996	4-F	SO2Me	CH2CONH2
3997	4-F	SO2Me	CH2CO2Me
3998	4-F	SO2Me	CH(CH2Ph)CO2Me
3999	4-F	SO2Me	CH2CH2NMe2
4000	4-F	SO2Me	benzyl
4001	4-F	SO2Me	phenethyl
4002	4-F	SO2Me	2-(morpholin-1-yl)-Et
4003	4-F	CH2COMe	Ph
4004	4-F	CH2COMe	3-CN-Ph
4005	4-F	CH2COMe	3-COMe-Ph
4006	4-F	CH2COMe	3-CO2Me-Ph
4007	4-F	CH2COMe	3-CONH2-Ph
4008	4-F	CH2COMe	3-CONHMe-Ph
4009	4-F	CH2COMe	3-F-Ph
4010	4-F	CH2COMe	3-Cl-Ph
4011	4-F	CH2COMe	· 3-Br-Ph
4012	4-F	CH2COMe	3-SO2NH2-Ph
4013	4-F	CH2COMe	3-SO2NHMe-Ph
4014	4-F	CH2COMe	3-CF3-Ph
4015	4-F	CH2COMe	3-OMe-Ph
4016	4-F	CH2COMe	3-SMe-Ph
4017	4-F	CH2COMe	3-SOMe-Ph
4018	4-F	CH2COMe	3-SO2Me-Ph
4019	4-F	CH2COMe	3-OH-Ph
4020	4-F	CH2COMe	3-CH2OH-Ph
4021	4-F	CH2COMe	3-CHOHMe-Ph
4022	4-F	CH2COMe	3-COH (Me) 2-Ph
4023	4-F	CH2COMe	3-Me-Ph
4024	4-F	CH2COMe	3-Et-Ph
4025	4-F	CH2COMe	3-iPr-Ph
4026	4-F	CH2COMe	3-tBu-Ph
4027	4-F	CH2COMe	3-CH2CO2Me-Ph
4028	4-F	CH2COMe	3-(1-piperidinyl)-Ph
4029	4-F	CH2COMe	3-(1-pyrrolidinyl)-Ph
4030	4-F	CH2COMe	3-(2-imidazolyl)-Ph
4031	4-F	CH2COMe	3-(1-imidazolyl)-Ph
4032	4-F	CH2COMe	3-(2-thiazolyl)-Ph
4033	4-F	CH2COMe	3-(3-pyrazolyl)-Ph
4034	4-F	CH2COMe	3-(1-pyrazolyl)-Ph

1005		T	T 2 /2
4035	4-F	CH2COMe	
4036	4-F	CH2COMe	3-(1-Me-5-tetrazoly1)-Ph
4037	4-F	CH2COMe	3-(2-pyridyl)-Ph
4038	4-F	CH2COMe	3-(2-thienyl)-Ph
4039	4-F	CH2COMe	3-(2-furanyl)-Ph
4040	4-F	CH2COMe	4-CN-Ph
4041	4-F	CH2COMe	4-COMe-Ph
4042	4-F	CH2COMe	4-CO2Me-Ph
4043	4-F	CH2COMe	4-CONH2-Ph
4044	4-F	CH2COMe	4-CONHMe-Ph
4045	4-F	CH2COMe	4-CONHPh-Ph
4046	4-F	CH2COMe	4-F-Ph
4047	4-F	CH2COMe	4-Cl-Ph
4048	4-F	CH2COMe	4-Br-Ph
4049	4-F	CH2COMe	4-SO2NH2-Ph
4050	4-F	CH2COMe	4-SO2NHMe-Ph
4051	4-F	CH2COMe	4-CF3-Ph
4052	4-F	CH2COMe	4-OMe-Ph
4053	4-F	CH2COMe	4-SMe-Ph
4054	4-F	CH2COMe	4-SOMe-Ph
4055	4-F	CH2COMe	4-SO2Me-Ph
4056	4-F	CH2COMe	4-OH-Ph
4057	4-F	CH2COMe	4-CH2OH-Ph
4058	4-F	CH2COMe	4-CHOHMe-Ph
4059	4-F	CH2COMe	4-COH(Me)2-Ph
4060	4-F	CH2COMe	4-Me-Ph
4061	4-F	CH2COMe	4-Et-Ph
4062	4-F	CH2COMe	4-iPr-Ph
4063	4-F	CH2COMe	4-tBu-Ph
4064	4-F	CH2COMe	4-CH2CO2Me-Ph
4065	4-F	CH2COMe	4-(1-piperidinyl)-Ph
4066	4-F	CH2COMe	4-(1-pyrrolidinyl)-Ph
4067	4-F	CH2COMe	4-(2-imidazolyl)-Ph
4068	4-F	CH2COMe	4-(1-imidazolyl)-Ph
4069	4-F	CH2COMe	4-(2-thiazolyl)-Ph
4070	4-F	CH2COMe	4-(3-pyrazolyl)-Ph
4071	4-F	CH2COMe	4-(1-pyrazolyl)-Ph
4072	4-F	CH2COMe	4-(5-Me-1-tetrazolyl)-Ph
4073	4-F	CH2COMe	4-(1-Me-5-tetrazolyl)-Ph
4074	4-F	CH2COMe	4-(2-pyridyl)-Ph
4075	4-F	CH2COMe	4-(2-thienyl)-Ph
4076	4-F	CH2COMe	4-(2-furanyl)-Ph
4077	4-F	CH2COMe	2-CN-Ph
4078	4-F	CH2COMe	2-COMe-Ph
4079	4-F	CH2COMe	2-CO2Me-Ph
4080	4-F	CH2COMe	2-CONH2-Ph
4081	4-F	CH2COMe	2-CONHMe-Ph
4082	4-F	CH2COMe	2-F-Ph
4083	4-F	CH2COMe	2-Cl-Ph
4084	4-F	CH2COMe	2-Br-Ph
4085	4-F	CH2COMe	2-SO2NH2-Ph

4086	4-F	CH2COMe	2-SO2NHMe-Ph
4087	4-F	CH2COMe	2-CF3-Ph
4088	4-F	CH2COMe	2-OMe-Ph
4089	4-F	CH2COMe	2-SMe-Ph
4090	4-F	CH2COMe	2-SMe-Ph
4091	4-F	CH2COMe	2-SOME-Ph
4092	4-F		2-502Me-Ph 2-0H-Ph
4092		CH2COMe	
· · · · · · · · · · · · · · · · · · ·	4-F	CH2COMe	2-CH2OH-Ph
4094	4-F	CH2COMe	2-CHOHMe-Ph
4095	4-F	CH2COMe	2-COH (Me) 2-Ph
4096	4-F	CH2COMe	2-Me-Ph
4097	4-F	CH2COMe	2-Et-Ph
4098	4-F	CH2COMe	2-iPr-Ph
4099	4-F	CH2COMe	2-tBu-Ph
4100	4-F	CH2COMe	2-CH2CO2Me-Ph
4101	4-F	CH2COMe	2-(1-piperidinyl)-Ph
4102	4-F	CH2COMe	2-(1-pyrrolidinyl)-Ph
4103	4-F	CH2COMe	2-(2-imidazoly1)-Ph
4104	4-F	CH2COMe	2-(1-imidazolyl)-Ph
4105	4-F	CH2COMe	2-(2-thiazolyl)-Ph
4106	4-F	CH2COMe	2-(3-pyrazolyl)-Ph
4107	4-F	CH2COMe	2-(1-pyrazolyl)-Ph
4108	4-F	CH2COMe	2-(5-Me-1-tetrazolyl)-Ph
4109	4-F	CH2COMe	2-(1-Me-5-tetrazolyl)-Ph
4110	4-F	CH2COMe	2-(2-pyridyl)-Ph
4111	4-F	CH2COMe	2-(2-thienyl)-Ph
4112	4-F	CH2COMe	2-(2-furanyl)-Ph
4113	4-F	CH2COMe	2,4-diF-Ph
4114	4-F	CH2COMe	2,5-diF-Ph
4115	4-F	CH2COMe	2,6-diF-Ph
4116	4-F	CH2COMe	3,4-diF-Ph
. 4117	4-F	CH2COMe	3,5-diF-Ph
4118	4-F	CH2COMe	2,4-diCl-Ph
4119	4-F	CH2COMe	2,5-diCl-Ph
4120	4-F	CH2COMe	2,6-diCl-Ph
4121	4-F	CH2COMe	3,4-diCl-Ph
4122	4-F	CH2COMe	3,5-diCl-Ph
4123	4-F	CH2COMe	3,4-diCF3-Ph
4124	4-F	CH2COMe	3,5-diCF3-Ph
4125	4-F	CH2COMe	5-C1-2-MeO-Ph
4126	4-F	CH2COMe	5-C1-2-Me-Ph
4127	4-F	CH2COMe	2-F-5-Me-Ph
4128	4-F	CH2COMe	3-F-5-morpholino-Ph
4129	4-F	CH2COMe	3,4-OCH2O-Ph
4130	4-F	CH2COMe	3,4-OCH2CH2O-Ph
4131	4-F	CH2COMe	2-MeO-5-CONH2-Ph
4132	4-F	CH2COMe	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
4133	4-F	CH2COMe	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
4134	4-F	CH2COMe	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
4135	4-F	CH2COMe	1-naphthyl
4136	4-F	CH2COMe	2-naphthyl

4135	1 4 -	CTTO COV-	T
4137	4-F	CH2COMe	2-thienyl
4138	4-F	CH2COMe	3-thienyl
4139	4-F	CH2COMe	2-furanyl
4140	4-F	CH2COMe	3-furanyl
4141	4-F	CH2COMe	2-pyridyl
4142	4-F	CH2COMe	3-pyridyl
4143	4-F	CH2COMe	4-pyridyl
4144	4-F	CH2COMe	2-indolyl
4145_	4-F	CH2COMe	3-indolyl
4146	4-F	CH2COMe	5-indolyl
4147	4-F	CH2COMe	6-indolyl
4148	4-F	CH2COMe	3-indazolyl
4149	4-F	CH2COMe	5-indazolyl
4150	4-F	CH2COMe	6-indazolyl
4151	4-F	CH2COMe	2-imidazolyl
4152	4-F	CH2COMe	3-isoxazoyl
4153	4-F	CH2COMe	3-pyrazolyl
4154	4-F	CH2COMe	2-thiadiazolyl
4155	4-F	CH2COMe	2-thiazolyl
4156	4-F	CH2COMe	5-Ac-4-Me-2-thiazolyl
4157	4-F	CH2COMe	5-tetrazolyl
4158	4-F	CH2COMe	2-benzimidazolyl
4159	4-F	CH2COMe	5-benzimidazolyl
4160	4-F	CH2COMe	2-benzothiazolyl
4161	4-F	CH2COMe	5-benzothiazolyl
4162	4-F	CH2COMe	2-benzoxazolyl
4163	4-F	CH2COMe	5-benzoxazolyl
4164	4-F	CH2COMe	1-adamantyl
4165	4-F	CH2COMe	2-adamantyl
4166	4-F	CH2COMe	i-Pr
4167	4-F	CH2COMe	t-Bu
4168	4-F	CH2COMe	c-Hex
4169	4-F	CH2COMe	CH2CH2OMe
4170	4-F	CH2COMe	CH2CONH2
4171	4-F	CH2COMe	CH2CO2Me
4172	4-F	CH2COMe	CH (CH2Ph) CO2Me
4173	4-F	CH2COMe	CH2CH2NMe2
4174	4-F	CH2COMe	benzyl
4175	4-F	CH2COMe	phenethyl
4176	4-F	CH2COMe	2-(morpholin-1-yl)-Et
4177	4-Cl	H	Ph
4178	4-C1	Н	3-CN-Ph
4179	4-C1	H	3-COMe-Ph
4180	4-C1	Н	3-CO2Me-Ph
4181	4-C1	H	3-CONH2-Ph
4182	4-C1	H	3-CONHMe-Ph
4183	4-C1	Н	3-F-Ph
4184	4-C1	Н	3-Cl-Ph
4185	4-C1	Н	3-Br-Ph
4186	4-C1	H	3-SO2NH2-Ph
4187	4-C1	Н	3-SO2NHMe-Ph
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4100	14 07	77	2 (772 71
4188	4-C1	H	3-CF3-Ph
4189	4-C1	H	3-OMe-Ph
4190	4-C1	H	3-SMe-Ph
4191	4-C1	H	3-SOMe-Ph
4192	4-C1	Н	3-SO2Me-Ph
4193	4-C1	H	3-OH-Ph
4194	4-Cl	H	3-CH2OH-Ph
4195	4-C1	H	3-CHOHMe-Ph
4196	4-Cl	H	3-COH (Me) 2-Ph
4197	4-Cl	H	3-Me-Ph
4198	4-Cl	H	3-Et-Ph
4199	4-Cl	H	3-iPr-Ph
4200	4-C1	H	3-tBu-Ph
4201	4-C1	H	3-CH2CO2Me-Ph
4202	4-C1	H	3-(1-piperidinyl)-Ph
4203	4-Cl	H	3-(1-pyrrolidinyl)-Ph
4204	4-C1	H	3-(2-imidazolyl)-Ph
4205	4-C1	H	3-(1-imidazolyl)-Ph
4206	4-C1	H	3-(2-thiazolyl)-Ph
4207	4-C1	H	3-(3-pyrazoly1)-Ph
4208	4-C1	H	3-(1-pyrazolyl)-Ph
4209	4-C1	H	3-(5-Me-1-tetrazolyl)-Ph
4210	4-C1	H	3-(1-Me-5-tetrazolyl)-Ph
4211	4-C1	Н	3-(2-pyridyl)-Ph
4212	4-C1	Н	3-(2-thienyl)-Ph
4213	4-C1	Н	3-(2-furanyl)-Ph
4214	4-C1	Н	4-CN-Ph
4215	4-Cl	Н	4-COMe-Ph
4216	4-C1	Н	4-CO2Me-Ph
4217	4-C1	H	4-CONH2-Ph
4218	4-C1	Н	4-CONHMe-Ph
4219	4-C1	Н	4-CONHPh-Ph
4220	4-C1	Н	4-F-Ph
4221	4-C1	H	4-Cl-Ph
4222	4-C1	Н	4-Br-Ph
4223	4-C1	Н	4-SO2NH2-Ph
4224	4-C1	Н	4-SO2NHMe-Ph
4225	4-C1	H	4-CF3-Ph
4226	4-C1	H	4-OMe-Ph
4227	4-C1	H	4-SMe-Ph
4228	4-C1	Н	4-SOMe-Ph
4229	4-C1	H	4-SO2Me-Ph
4230	4-C1	H	4-OH-Ph
4231	4-C1	H	4-CH2OH-Ph
4232	4-C1	H H	4-CHOHMe-Ph
4233	4-C1	H	4-COH (Me) 2-Ph
4234	4-Cl	H	4-Ke-Ph
4235	4-C1	H	4-Et-Ph
4236	4-C1	H H	4-iPr-Ph
4237	4-C1	H	4-IFI-FII 4-tBu-Ph
4238	4-C1	<u> н</u>	
4230	#-CT	п	4-CH2CO2Me-Ph

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4239	4-Cl	H	4-(1-piperidinyl)-Ph
4240	4-Cl	H	4-(1-pyrrolidinyl)-Ph
4241	4-Cl	H	4-(2-imidazolyl)-Ph
4242	4-C1	H	4-(1-imidazolyl)-Ph
4243	4-C1	H	4-(2-thiazolyl)-Ph
4244	4-Cl	H	4-(3-pyrazolyl)-Ph
4245	4-Cl	H	4-(1-pyrazolyl)-Ph
4246	4-Cl	H	4-(5-Me-1-tetrazoly1)-Ph
4247	4- <u>C</u> 1	H	4-(1-Me-5-tetrazolyl)-Ph
4248	4-C1	H	4-(2-pyridyl)-Ph
4249	4-Cl	H	4-(2-thienyl)-Ph
4250	4-C1	H	4-(2-furanyl)-Ph
4251	4-C1	H	2-CN-Ph
4252	4-C1	H	2-COMe-Ph
4253	4-C1	H	2-CO2Me-Ph
4254	4-C1	H	2-CONH2-Ph
4255	4-C1	H	2-CONHMe-Ph
4256	4-C1	Н	2-F-Ph
4257	4-C1	· H	2-Cl-Ph
4258	4-Cl	H	2-Br-Ph
4259	4-C1	H	2-SO2NH2-Ph
4260	4-C1	Н	2-SO2NHMe-Ph
4261	4-C1	H	2-CF3-Ph
4262	4-C1	н	2-OMe-Ph
4263	4-C1	H	2-SMe-Ph
4264	4-C1	Н	2-SOMe-Ph
4265	4-C1	Н	2-SO2Me-Ph
4266	4-C1	H	2-OH-Ph
4267	4-C1	Н	2-CH2OH-Ph
4268	4-C1	H	2-CHOHMe-Ph
4269	4-C1	н	2-COH (Me) 2-Ph
4270	4-C1	H	2-Me-Ph
4271	4-C1	H	2-Et-Ph
4272	4-C1	H	2-iPr-Ph
4273	4-C1	Н	2-tBu-Ph
4274	4-C1	H	2-CH2CO2Me-Ph
4275	4-C1	H	2-(1-piperidinyl)-Ph
4276	4-C1	H	2-(1-pyrrolidiny1)-Ph
4277	4-C1	H	2-(1-pyrioridiny)-Fh 2-(2-imidazolyl)-Ph
4278	4-C1	H	2-(2-imidazolyi)-Ph 2-(1-imidazolyi)-Ph
4279	4-C1	H	2-(2-thiazolyl)-Ph
4280	4-C1	H	2-(2-thrazoly1)-Ph 2-(3-pyrazoly1)-Ph
4281	4-C1	H	2-(3-pyrazoly1)-Ph 2-(1-pyrazoly1)-Ph
4282	4-C1	H	2-(1-pylazoly1)-Ph 2-(5-Me-1-tetrazoly1)-Ph
4283	4-C1	H	2-(1-Me-5-tetrazoly1)-Ph
4284	4-C1	H	
4285			2-(2-pyridyl)-Ph
	4-Cl	H	2-(2-thienyl)-Ph
4286	4-C1	<u> </u>	2-(2-furanyl)-Ph
4287	4-C1	H	2,4-diF-Ph
4288	4-C1	H	2,5-diF-Ph
4289	4-Cl	<u>H</u>	2,6-diF-Ph

4290	4-C1	H	3,4-diF-Ph
4291	4-C1	H	3,5-diF-Ph
4292	4-Cl	H	2,4-diCl-Ph
4293	4-C1	H	2,5-diCl-Ph
4294	4-C1	Н	2,6-diCl-Ph
4295	4-C1	Н	3,4-diCl-Ph
4296	4-C1	Н	3,5-diCl-Ph
4297	4-C1	Н	3,4-diCF3-Ph
4298	4-C1	Н	3,5-diCF3-Ph
4299	4-C1	Н	5-C1-2-MeO-Ph
4300	4-C1	Н	5-Cl-2-Me-Ph
4301	4-C1	Н	2-F-5-Me-Ph
4302	4-C1	Н	3-F-5-morpholino-Ph
4303	4-C1	н	3,4-OCH2O-Ph
4304	4-C1	·H	3,4-OCH2CH2O-Ph
4305	4-Cl	н	2-MeO-5-CONH2-Ph
4306	4-C1	Н	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
4307	4-C1	Н	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
4308	4-C1	Н	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
4309	4-C1	Н	1-naphthyl
4310	4-C1	Н	2-naphthy1
4311	4-C1	Н	2-thienyl
4312	4-C1	Н	3-thienyl
4313	4-C1	H	2-furanyl
4314	4-C1	Н	3-furanyl
4315	4-C1	Н	2-pyridyl
4316	4-C1	Н	3-pyridyl
4317	4-C1	H	4-pyridyl
4318	4-C1	Н	2-indolyl
4319	4-C1	Н	3-indolyl
4320	4-C1	H	5-indolyl
4321	4-C1	Н	6-indolyl
4322	4-C1	Н	3-indazolyl
4323	4-C1	Н	5-indazolyl
4324	4-C1	Н	6-indazolyl
4325	4-C1	Н	2-imidazolyl
4326	4-C1	Н	3-isoxazoyl
4327	4-C1	Н	3-pyrazolyl
4328	4-C1	Н	2-thiadiazolyl
4329	4-C1	Н	2-thiazolyl
4330	4-C1	Н	5-Ac-4-Me-2-thiazolyl
4331	4-C1	H	5-tetrazolyl
4332	4-C1	Н	2-benzimidazolyl
4333	4-C1	н	5-benzimidazolyl
4334	4-C1	Н	2-benzothiazolyl
4335	4-C1	H	5-benzothiazolyl
4336	4-C1	Н	2-benzoxazolyl
4337	4-C1	H	5-benzoxazolyl
4338	4-C1	H	1-adamantyl
4339	4-C1	H	2-adamantyl
4340	4-C1	Н	i-Pr

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4341	4-Cl	H	t-Bu
4342	4-C1	H	c-Hex
4343	4-Cl	н	CH2CH2OMe
4344	4-Cl	H	CH2CONH2
4345	4-C1	H	CH2CO2Me
4346	4-C1	Н	CH(CH2Ph)CO2Me
4347	4-C1	Н	CH2CH2NMe2
4348	4-C1	Н	benzyl
4349	4-C1	H	phenethyl
4350	4-C1	Н	2-(morpholin-1-yl)-Et
4351	4-C1	Me	Ph
4352	4-Cl	Me	3-CN-Ph
4353	4-C1	Me	3-COMe-Ph
4354	4-C1	Me	3-CO2Me-Ph
4355	4-C1	Me	3-CONH2-Ph
4356	4-C1	Me	3-CONHMe-Ph
4357	4-C1	Me	3-F-Ph
4358	4-C1	Me	3-C1-Ph
4359	4-C1	Me	3-Br-Ph
4360	4-C1	Me	3-SO2NH2-Ph
4361	4-C1	Me	3-SO2NHMe-Ph
4362	4-C1	Me	3-CF3-Ph
4363	4-C1	Me	3-OMe-Ph
4364	4-C1	Me	3-SMe-Ph
4365	4-C1	Me	3-SOMe-Ph
4366	4-C1	Me	3-SO2Me-Ph
4367	4-C1	Me	3-OH-Ph
4368	4-C1	Me	3-CH2OH-Ph
4369	4-C1	Me	3-CHOHMe-Ph
4370	4-C1	Me	3-COH (Me) 2-Ph
4371	4-Cl	Me	3-Me-Ph
4372	4-C1	Me	3-Et-Ph
4373	4-C1	Me	3-iPr-Ph
4374	4-C1	Me	3-tBu-Ph
4375	4-C1	Me	3-CH2CO2Me-Ph
4376	4-C1	Me	3-(1-piperidinyl)-Ph
4377	4-C1	Me	3-(1-pyrrolidinyl)-Ph
4378	4-C1	Me	3-(1-pylidildily1)-Ph 3-(2-imidazoly1)-Ph
4379	4-C1	Me	3-(1-imidazoly1)-Ph
4380	4-C1	Me	3-(2-thiazoly1)-Ph
4381	4-C1	Me	3-(2-chidzolyl)-Ph
4382	4-C1	Me	3-(1-pyrazoly1)-Ph
4383	4-C1	Me	3-(1-bylazoly1)-Ph 3-(5-Me-1-tetrazoly1)-Ph
4384	4-C1	Me Me	
4385	4-C1		3-(1-Me-5-tetrazolyl)-Ph
4386	4-C1	Me Me	3-(2-pyridyl)-Ph
4387			3-(2-thienyl)-Ph
4388	4-C1	Me	3-(2-furanyl)-Ph
	4-C1	Me	4-CN-Ph
4389	4-C1	Me	4-COMe-Ph
4390	4-C1	Me	4-CO2Me-Ph
4391	4-C1	Me	4-CONH2-Ph

4202	4 01	Mo	4 CONTRA DI
4392	4-C1	Me	4-CONHMe-Ph
4393	4-Cl	Me	4-CONHPh-Ph
4394	4-Cl	. Me	4-F-Ph
4395	4-C1	Me	4-Cl-Ph
4396	4-C1	Me	4-Br-Ph
4397	4-C1	Me	4-SO2NH2-Ph
4398	4-Cl	Me	4-SO2NHMe-Ph
4399	4-C1	Me	4-CF3-Ph
4400	4-Cl	Me	4-OMe-Ph
4401	4-Cl	Me	4-SMe-Ph
4402	4-C1	Me	4-SOMe-Ph
4403	4-Cl	Me	4-SO2Me-Ph
4404	4-Cl	Me	4-OH-Ph
4405	4-Cl	Me	4-CH2OH-Ph
4406	4-C1	Me	4-CHOHMe-Ph
4407	4-Cl	Me	4-COH (Me) 2-Ph
4408	4-C1	Me	4-Me-Ph
4409	4-Cl	Me	4-Et-Ph
4410	4-Cl	Me	4-iPr-Ph
4411	4-C1	Me	4-tBu-Ph
4412	4-C1	Me	4-CH2CO2Me-Ph
4413	4-C1	Me	4-(1-piperidinyl)-Ph
4414	4-C1	Me	4-(1-pyrrolidinyl)-Ph
4415	4-C1	Me	4-(2-imidazolyl)-Ph
4416	4-C1	Me	4-(1-imidazolyl)-Ph
4417	4-C1	Me	4-(2-thiazolyl)-Ph
4418	4-C1	Me	4-(3-pyrazolyl)-Ph
4419	4-C1	Me	4-(1-pyrazoly1)-Ph
4420	4-Cl	Me	4-(5-Me-1-tetrazolyl)-Ph
4421	4-C1	Me	4-(1-Me-5-tetrazoly1)-Ph
4422	4-Cl	Me	4-(2-pyridyl)-Ph
4423	4-C1	Me	4-(2-thienyl)-Ph
4424	4-C1	Me	4-(2-furanyl)-Ph
4425	4-C1	Me	2-CN-Ph
4426	4-C1	Me	2-COMe-Ph
4427	4-C1	Me	2-CO2Me-Ph
4428	4-C1	Me	2-CONH2-Ph
4429	4-C1	Me	2-CONHMe-Ph
4430	4-C1	Me	2-F-Ph
4431	4-C1	Me	2-1-FH 2-C1-Ph
4432	4-C1	Me	2-Br-Ph
4433	4-C1	Me	2-SO2NH2-Ph
4434	4-C1	Mе	2-S02NHZ-Ph 2-S02NHMe-Ph
4435	4-C1	Me	
4435	4-C1		2-CF3-Ph
4437		Me Mo	2-OMe-Ph
	4-C1	Me	2-SMe-Ph
4438	4-C1	Me	2-SOMe-Ph
4439	4-C1	Me	2-SO2Me-Ph
4440	4-C1	Me	2-OH-Ph
4441 4442	4-C1	Me	2-CH2OH-Ph
// // // /	4-C1	Me	2-CHOHMe-Ph

4443	14 01	Mo	2 COU (Ma) 2 Ph
4444	4-Cl 4-Cl	Me Me	2-COH (Me) 2-Ph
4445			2-Me-Ph
	4-C1	Me	2-Et-Ph
4446	4-C1	Me	2-iPr-Ph
4447	4-Cl	Me	2-tBu-Ph
4448	4-C1	Me	2-CH2CO2Me-Ph
4449	4-C1	Me	2-(1-piperidinyl)-Ph
4450	4-Cl	Me	2-(1-pyrrolidinyl)-Ph
4451	4-Cl	Me	2-(2-imidazoly1)-Ph
4452	4-C1	Me	2-(1-imidazolyl)-Ph
4453	4-C1	Me	2-(2-thiazolyl)-Ph
4454	4-C1	Me	2-(3-pyrazolyl)-Ph
4455	4-C1	Me	2-(1-pyrazoly1)-Ph
4456	4-C1	Me	2-(5-Me-1-tetrazoly1)-Ph
4457	4-C1	Me	2-(1-Me-5-tetrazolyl)-Ph
4458	4-C1	Me	2-(2-pyridyl)-Ph
4459	4-Cl	Me	2-(2-thienyl)-Ph
4460	4-C1	Me	2-(2-furanyl)-Ph
4461	4-C1	Me_	2,4-diF-Ph
4462	4-C1	Me	2,5-diF-Ph
4463	4-C1	Me	2,6-diF-Ph
4464	4-C1	Me	3,4-diF-Ph
4465	4-C1	Me	3,5-diF-Ph
4466	4-C1	Me	2,4-diCl-Ph
4467	4-C1	Me	2,5-diCl-Ph
4468	4-C1	Me	2,6-diCl-Ph
4469	4-C1	Me	3,4-diCl-Ph
4470	4-C1	Me	3,5-diCl-Ph
4471	4-C1	Me	3,4-diCF3-Ph
4472	4-C1	Me	3,5-diCF3-Ph
4473	4-C1	Me	5-C1-2-MeO-Ph
4474	4-Cl	Me	5-C1-2-Me-Ph
4475	4-C1	Me	2-F-5-Me-Ph
4476	4-C1	Me	3-F-5-morpholino-Ph
4477	4-C1	Me	3,4-OCH2O-Ph
4478	4-C1	Me	3,4-OCH2CH2O-Ph
4479	4-C1	Me	2-MeO-5-CONH2-Ph
4480	4-C1	<u>Me</u>	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
4481	4-C1	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
4482	4-C1	<u>Me</u>	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
4483	4-C1	Me	1-naphthyl
4484	4-C1	Me	2-naphthyl
4485	4-C1	Me	2-thienyl
4486	4-C1	Me	3-thienyl
4487	4-Cl	Me	2-furanyl
4488	4-C1	Me	3-furanyl
4489	4-C1	Me	2-pyridyl
4490	4-C1	Me	3-pyridyl
4491	4-C1	Me	4-pyridyl
4492	4-C1	Me	2-indolyl
4493	4-C1	Me	3-indolyl

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4494	4-C1	Me	5-indolyl
4495	4-C1	Me	6-indolyl
4496	4-C1	Me	3-indazolyl
4497	4-Cl	Me	5-indazolyl
4498	4-C1	Me	6-indazolyl
4499	4-C1	Me	2-imidazolyl
4500	4-C1	Me	3-isoxazoyl
4501	4-C1	Me	3-pyrazolyl
4502	4-C1	Me	2-thiadiazolyl
4503	4-C1	Me	2-thiazolyl
4504	4-C1	Me	5-Ac-4-Me-2-thiazolyl
4505	4-C1	Me	5-tetrazolyl
4506	4-C1	Me	2-benzimidazolyl
4507	4-C1	Me	5-benzimidazolyl
4508	4-C1	Me	2-benzothiazolyl
4509	4-C1	Me	5-benzothiazolyl
4510	4-C1	Me	2-benzoxazolyl
4511	4-C1	Me	5-benzoxazolyl
4512	4-C1	Me	1-adamantyl
4513	4-C1	Me •	2-adamantyl
4514	4-C1	Me	i-Pr
4515	4-C1	Me	t-Bu
4516	4-C1	Me	C-Hex
4517	4-C1	Me	CH2CH2OMe
4518	4-C1	Me	CH2CONH2
4519	4-C1	Me	CH2CO2Me
4520	4-C1	Me	CH2CO2Me CH (CH2Ph) CO2Me
4521	4-C1	Me	CH2CH2NMe2
4522	4-C1	Me	benzyl
4523	4-C1	Me	phenethyl
4524	4-C1	Me	2-(morpholin-1-yl)-Et
4525	4-C1	2-F-Et	Ph
4526	4-C1	2-F-Et	3-CN-Ph
4527	4-C1	2-F-Et	3-COMe-Ph
4528	4-C1	2-F-Et	3-CO2Me-Ph
4529	4-C1	2-F-Et	3-CONH2-Ph
4530	4-C1	2-F-Et	3-CONHMe-Ph
4531	4-C1	2-F-Et	3-F-Ph
4532	4-C1	2-F-Et	3-Cl-Ph
4533	4-C1	2-F-Et	3-Br-Ph
4534	4-C1	2-F-Et	3-SO2NH2-Ph
4535	4-C1	2-F-Et	3-SO2NHZ-FH 3-SO2NHMe-Ph
4536	4-C1	2-F-Et	3-CF3-Ph
4537	4-C1	2-F-Et	3-OMe-Ph
4538	4-C1	2-F-Et	3-SMe-Ph
4539	4-C1	2-F-Et	3-SMe-Ph
4540	4-C1	2-F-Et	3-SO2Me-Ph
4541	4-C1	2-F-Et	3-SOZME-Ph 3-OH-Ph
4542	4-C1	2-F-Et	
4543			3-CH2OH-Ph
	4-C1	2~F-Et	3-CHOHMe-Ph
4544	4-C1	2-F-Et	3-COH (Me) 2-Ph

4545	4-C1	2-F-Et	2 Ma Dh
4546	4-C1	2-F-Et	3-Me-Ph
4547	4-C1	2-F-Et	3-Et-Ph
			3-iPr-Ph
4548	4-Cl		3-tBu-Ph
4549	4-Cl	2-F-Et	3-CH2CO2Me-Ph
4550	4-C1	2-F-Et	3-(1-piperidinyl)-Ph
4551	4-Cl		3-(1-pyrrolidiny1)-Ph
4552	4-C1		3-(2-imidazolyl)-Ph
4553	4-C1		3-(1-imidazolyl)-Ph
4554	4-Cl		3-(2-thiazolyl)-Ph
4555	4-C1		3-(3-pyrazolyl)-Ph
4556	4-C1	2-F-Et	3-(1-pyrazolyl)-Ph
4557	4-C1	2-F-Et	3-(5-Me-1-tetrazoly1)-Ph
4558	4-C1	2-F-Et	3-(1-Me-5-tetrazoly1)-Ph
4559	4-C1	2-F-Et	3-(2-pyridyl)-Ph
4560	4-C1	2-F-Et	3-(2-thienyl)-Ph
4561	4-C1	2-F-Et	3-(2-furanyl)-Ph
4562	4-C1	2-F-Et	4-CN-Ph
4563	4-C1	2-F-Et	4-COMe-Ph
4564	4-C1	2-F-Et	4-CO2Me-Ph
4565	4-C1	2-F-Et	4-CONH2-Ph
4566	4-C1	2-F-Et	4-CONHMe-Ph
4567	4-Cl	2-F-Et	4-CONHPh-Ph
4568	4-C1	2-F-Et	4-F-Ph
4569	4-C1	2-F-Et	4-C1-Ph
4570	4-C1	2-F-Et	4-Br-Ph
4571	4-C1	2-F-Et	4-SO2NH2-Ph
4572	4-C1	2-F-Et	4-SO2NHMe-Ph
4573	4-C1	2-F-Et	4-CF3-Ph
4574	4-C1	2-F-Et	4-OMe-Ph
4575	4-C1	2-F-Et	4-SMe-Ph
4576	4-C1	2-F-Et	4-SOMe-Ph
4577	4-C1	2-F-Et	4-SO2Me-Ph
4578	4-Cl	2-F-Et	4-OH-Ph
4579	4-C1	2-F-Et	4-CH2OH-Ph
4580	4-C1	2-F-Et	4-CHOHMe-Ph
4581	4-C1	2-F-Et	4-COH (Me) 2-Ph
4582	4-C1	2-F-Et	4-Me-Ph
4583	4-Cl	2-F-Et	4-Et-Ph
4584	4-Cl	2-F-Et	4-iPr-Ph
4585	4-C1	2-F-Et	4-tBu-Ph
4586	4-C1	2-F-Et	4-CH2CO2Me-Ph
4587	4-C1	2-F-Et	4-(1-piperidinyl)-Ph
4588	4-C1	2-F-Et	4-(1-pyrrolidinyl)-Ph
4589	4-C1	2-F-Et	4-(2-imidazoly1)-Ph
4590	4-C1	2-F-Et	4-(1-imidazolyl)-Ph
4591	4-Cl	2-F-Et	4-(2-thiazolyl)-Ph
4592	4-C1	2-F-Et	4-(3-pyrazoly1)-Ph
4593	4-C1	2-F-Et	4-(1-pyrazolyl)-Ph
4594	4-C1	2-F-Et	4-(5-Me-1-tetrazoly1)-Ph
4595	4-C1	2-F-Et	4-(1-Me-5-tetrazolyl)-Ph

			
4596	4-C1		4-(2-pyridyl)-Ph
<u>4597.</u>	4-C1		4-(2-thienyl)-Ph
4598	4-C1	2-F-Et	4-(2-furanyl)-Ph
4599	4-Cl	2-F-Et	2-CN-Ph
4600	4-Cl	2-F-Et	2-COMe-Ph
4601	4-Cl	2-F-Et	2-CO2Me-Ph
4602	4-C1	2-F-Et	2-CONH2-Ph
4603	4-C1	2-F-Et	2-CONHMe-Ph
4604	4-C1	2-F-Et	2-F-Ph
4605	4-C1	2-F-Et	2-Cl-Ph
4606	4-C1	2-F-Et	2-Br-Ph
4607	4-C1	2-F-Et	2-SO2NH2-Ph
4608	4-C1	2-F-Et	2-SO2NHMe-Ph
4609	4-C1	2-F-Et	2-CF3-Ph
4610	4-C1	2-F-Et	2-OMe-Ph
4611	4-C1		2-SMe-Ph
4612	4-C1		2-SOMe-Ph
4613	4-C1		2-SO2Me-Ph
4614	4-C1	2-F-Et	2-OH-Ph
4615	4-C1	2-F-Et	2-CH2OH-Ph
4616	4-C1	2-F-Et	2-CHOHMe-Ph
4617	4-C1	2-F-Et	2-COH (Me) 2-Ph
4618	4-C1	2-F-Et	2-Me-Ph
4619	4-C1	2-F-Et	2-Et-Ph
4620	4-C1	2-F-Et	2-iPr-Ph
4621	4-C1	2-F-Et	2-tBu-Ph
4622	4-C1	2-F-Et	2-CH2CO2Me-Ph
4623	4-Cl	2-F-Et	2-(1-piperidinyl)-Ph
4624	4-C1	2-F-Et	2-(1-pyrrolidinyl)-Ph
4625	4-C1	2-F-Et	2-(2-imidazolyl)-Ph
4626	4-Cl	2-F-Et	2-(1-imidazolyl)-Ph
4627	4-C1	2-F-Et	2-(2-thiazolyl)-Ph
4628	4-C1	2-F-Et	2-(3-pyrazolyl)-Ph
4629	4-C1	2-F-Et	2-(1-pyrazolyl)-Ph
4630	4-C1	2-F-Et	2-(5-Me-1-tetrazolyl)-Ph
4631	4-C1	2-F-Et	2-(1-Me-5-tetrazolyl)-Ph
4632	4-C1	2-F-Et	2-(2-pyridyl)-Ph
4633	4-C1	2-F-Et	2-(2-thienyl)-Ph
4634	4-C1	2-F-Et	2-(2-furanyl)-Ph
4635	4-C1	2-F-Et	2,4-diF-Ph
4636	4-C1	2-F-Et	2,5-diF-Ph
4637	4-C1	2-F-Et	2,6-diF-Ph
4638	4-C1	2-F-Et	3,4-diF-Ph
4639	4-C1	2-F-Et	3,5-diF-Ph
4640	4-C1	2-F-Et	2,4-diCl-Ph
4641	4-C1	2-F-Et	2,5-diCl-Ph
4642	4-C1	2-F-Et	2,6-diCl-Ph
4643	4-C1	2-F-Et	3,4-diCl-Ph
4644	4-C1	2-F-Et	3,5-diCl-Ph
4645	4-Cl	2-F-Et	3,4-diCF3-Ph
4646	4-C1	2-F-Et	3,5-diCF3-Ph
1010		<u> </u>	J/J GTOLD_EII

1.047	1 4 63	1 0 E E	F 01 0 15 0 71
4647	4-C1		5-C1-2-MeO-Ph
4648	4-C1	2-F-Et	5-Cl-2-Me-Ph
4649	4-C1		2-F-5-Me-Ph
4650	4-C1		3-F-5-morpholino-Ph
4651	4-C1	2-F-Et	3,4-OCH2O-Ph
4652	4-C1	2-F-Et	3,4-OCH2CH2O-Ph
4653	4-C1	2-F-Et	2-MeO-5-CONH2-Ph
4654	4-C1	2-F-Et	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
4655	4-C1	2-F-Et	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
4656	4-C1	2-F-Et	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
4657	4-C1	2-F-Et	1-naphthyl
4658	4-Cl	2-F-Et	2-naphthyl
4659	4-C1	2-F-Et	2-thienyl
4660	4-C1	2-F-Et	3-thienyl
4661	4-C1	2-F-Et	2-furanyl
4662	4-C1	2-F-Et	3-furanyl
4663	4-C1	2-F-Et	
4664	4-C1	2-F-Et	2-pyridyl
4665			3-pyridyl
	4-C1	2-F-Et	4-pyridyl
4666	4-C1	2-F-Et	2-indolyl
4667	4-C1	2-F-Et	3-indolyl
4668	4-Cl	2-F-Et	5-indolyl
4669	4-C1	2-F-Et	6-indolyl
4670	4-C1	2-F-Et	3-indazolyl
4671	4-C1	2-F-Et	5-indazolyl
4672	4-C1	2-F-Et	6-indazolyl
4673	4-C1	2-F-Et	2-imidazolyl
4674	4-C1	2-F-Et	3-isoxazoyl
4675	4-C1	2-F-Et	3-pyrazolyl
4676	4-Cl	2-F-Et	2-thiadiazolyl
4677	4-C1	2-F-Et	2-thiazolyl
4678	4-C1	2-F-Et	5-Ac-4-Me-2-thiazolyl
4679	4-C1	2-F-Et	5-tetrazolyl
4680	4-Cl	2-F-Et	2-benzimidazolyl
4681	4-Cl	2-F-Et	5-benzimidazolyl
4682	4-C1	2-F-Et	2-benzothiazolyl
4683	4-C1	2-F-Et	5-benzothiazolyl
4684	4-C1	2-F-Et	2-benzoxazolyl
4685	4-C1	2-F-Et	5-benzoxazolyl
4686	4-C1	2-F-Et	1-adamantyl
4687	4-C1	2-F-Et	2-adamantyl
4688	4-C1	2-F-Et	i-Pr
4689	4-Cl	2-F-Et	t-Bu
4690	4-C1	2-F-Et	c-Hex
4691	4-C1	2-F-Et	CH2CH2OMe
4692	4-C1	2-F-Et	CH2CONH2
4693	4-Cl	2-F-Et	CH2CO2Me
4694	4-C1	2-F-Et	CH(CH2Ph)CO2Me
4695	4-C1	2-F-Et	CH2CH2NMe2
4696	4-C1	2-F-Et	benzyl
4697	4-C1	2-F-Et	phenethyl

4698	4-C1	2-F-Et	2-(morpholin-1-yl)-Et
4699	4-C1	CO2Me	Ph
4700	4-C1	CO2Me	3-CN-Ph
4701	4-C1	CO2Me	3-COMe-Ph
4702	4-C1	CO2Me	3-CO2Me-Ph
4703	4-C1	CO2Me	3-CONH2-Ph
4704	4-C1	CO2Me	3-CONHE-Ph
4705	4-C1	CO2Me	3-F-Ph
4706	4-C1	CO2Me	3-F-FII 3-C1-Ph
4707	4-C1	CO2Me	3-Br-Ph
4708	4-C1	CO2Me	3-SO2NH2-Ph
4709	4-C1	CO2Me	3-SO2NH2-PH
4710	4-C1	CO2Me	
4711	4-C1	CO2Me	3-CF3-Ph 3-OMe-Ph
4712	4-C1	CO2Me	3-SMe-Ph
4713	4-C1	CO2Me	
4714	4-C1	CO2Me	3-SOMe-Ph
4714	4-C1	CO2Me CO2Me	3-SO2Me-Ph
4716			3-OH-Ph
4717	4-Cl 4-Cl	CO2Me	3-CH2OH-Ph
4718		CO2Me CO2Me	3-CHOHMe-Ph
4719	4-Cl		3-COH (Me) 2-Ph
4720	4-Cl	CO2Me	3-Me-Ph
4721	4-C1	CO2Me	3-Et-Ph
4722	4-C1	CO2Me CO2Me	3-iPr-Ph
4723	4-C1	CO2Me	3-tBu-Ph
4724	4-C1	CO2Me	3-CH2CO2Me-Ph
4725	4-C1	CO2Me	3-(1-piperidiny1)-Ph 3-(1-pyrrolidiny1)-Ph
4726	4-C1	CO2Me	3-(1-pyrioridiny1)-Ph 3-(2-imidazoly1)-Ph
4727	4-C1	CO2Me	
4728	4-C1	CO2Me	3-(1-imidazoly1)-Ph
4729	4-C1	CO2Me	3-(2-thiazolyl)-Ph
4730	4-C1	CO2Me	3-(3-pyrazolyl)-Ph
4731	4-C1	CO2Me	3-(1-pyrazolyl)-Ph
4732	4-C1	CO2Me	3-(5-Me-1-tetrazolyl)-Ph 3-(1-Me-5-tetrazolyl)-Ph
4733	4-C1	CO2Me	3-(1-Me-5-tetrazoly1)-Ph 3-(2-pyridy1)-Ph
4734	4-C1	CO2Me	3-(2-pyridy1)-Ph 3-(2-thieny1)-Ph
4735	4-C1	CO2Me	3-(2-threny1)-Ph 3-(2-furany1)-Ph
4736	4-C1	CO2Me	
4737	4-C1	CO2Me	4-CN-Ph
4738	4-C1	CO2Me	4-COMe-Ph
4739	4-C1	CO2Me	4-CO2Me-Ph
4740	4-C1		4-CONH2-Ph
4741		CO2Me	4-CONHMe-Ph
4741	4-C1	CO2Me	4-CONHPh-Ph
	4-Cl	CO2Me	4-F-Ph
4743	4-Cl	CO2Me	4-Cl-Ph
4744	4-C1	CO2Me	4-Br-Ph
4745	4-C1	CO2Me	4-SO2NH2-Ph
4746	4-Cl	CO2Me	4-SO2NHMe-Ph
4747	4-C1	CO2Me	4-CF3-Ph
4748	4-Cl	CO2Me	4-OMe-Ph

1740	1 4 01		4 CM Dla
4749	4-C1	CO2Me	4-SMe-Ph
4750	4-C1	CO2Me	4-SOMe-Ph
4751	4-C1	CO2Me	4-S02Me-Ph
4752	4-C1	CO2Me	4-OH-Ph
4753	4-C1	CO2Me	4-CH2OH-Ph
4754	4-C1	CO2Me	4-CHOHMe-Ph
4755	4-Cl	CO2Me	4-COH(Me)2-Ph
4756	4-C1	CO2Me	4-Me-Ph
4757	4-C1	CO2Me	4-Et-Ph
4758	4-Cl	CO2Me	4-iPr-Ph
4759	4-C1	CO2Me	4-tBu-Ph
4760	4-C1	CO2Me	4-CH2CO2Me-Ph
4761	4-Cl	CO2Me	4-(1-piperidinyl)-Ph
4762	4-C1	CO2Me	4-(1-pyrrolidinyl)-Ph
4763	4-Cl	CO2Me	4-(2-imidazolyl)-Ph
4764	4-C1	CO2Me	4-(1-imidazolyl)-Ph
4765	4-C1	CO2Me	4-(2-thiazolyl)-Ph
4766	4-C1	CO2Me	4-(3-pyrazolyl)-Ph
4767	4-C1	CO2Me	4-(1-pyrazolyl)-Ph
4768	4-Cl	CO2Me	4-(5-Me-1-tetrazolyl)-Ph
4769	4-C1	CO2Me	4-(1-Me-5-tetrazolyl)-Ph
4770	4-C1	CO2Me	4-(2-pyridyl)-Ph
4771	4-Cl	CO2Me	4-(2-thienyl)-Ph
4772	4-C1	CO2Me	4-(2-furanyl)-Ph
4773	4-C1	CO2Me	2-CN-Ph
4774	4-C1	CO2Me	2-COMe-Ph
4775	4-C1	CO2Me	2-CO2Me-Ph
4776	4-C1	CO2Me	2-CONH2-Ph
4777	4-C1	CO2Me	2-CONHMe-Ph
4778	4-C1	CO2Me	2-F-Ph
4779	4-C1	CO2Me	2-C1-Ph
4780	4-C1	СО2Ме	2-Br-Ph
4781	4-C1	CO2Me	2-SO2NH2-Ph
4782	4-C1	CO2Me	2-SO2NHMe-Ph
4783	4-C1	CO2Me	2-CF3-Ph
4784	4-C1	CO2Me	2-OMe-Ph
4785	4-C1	CO2Me	2-SMe-Ph
4786	4-C1	CO2Me	2-SOMe-Ph
4787	4-C1	CO2Me	2-SO2Me-Ph
4788	4-C1	CO2Me	2-OH-Ph
4789	4-C1	CO2Me	2-CH2OH-Ph
4790	4-C1	CO2Me	2-CHOHMe-Ph
4791	4-C1	CO2Me	2-CHOMME-FIT 2-COH (Me) 2-Ph
4792	4-C1	CO2Me	2-CON(Me)2-FN 2-Me-Ph
4793	4-C1	CO2Me	2-Me-Ph 2-Et-Ph
4794	4-C1	CO2Me	2-EC-Ph 2-iPr-Ph
4795	4-C1		
4796	4-C1	CO2Me	2-tBu-Ph
4797		CO2Me	2-CH2CO2Me-Ph
	4-C1	CO2Me	2-(1-piperidinyl)-Ph
4798	4-C1	CO2Me	2-(1-pyrrolidinyl)-Ph
4799	4-C1	CO2Me	2-(2-imidazolyl)-Ph

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4800	4-C1		2-(1-imidazolyl)-Ph
4801	4-C1	CO2Me	2-(2-thiazolyl)-Ph
4802	4-C1	CO2Me	2-(3-pyrazolyl)-Ph
4803	4-C1	CO2Me	2-(1-pyrazolyl)-Ph
4804	4-C1	CO2Me	2-(5-Me-1-tetrazolyl)-Ph
4805	4-C1	CO2Me	2-(1-Me-5-tetrazoly1)-Ph
4806	4-C1	CO2Me	2-(2-pyridyl)-Ph
4807	4-C1	CO2Me	2-(2-thienyl)-Ph
4808	4-Cl	CO2Me	2-(2-furanyl)-Ph
4809	4-C1	CO2Me	2,4-diF-Ph
4810	4-Cl	CO2Me	2,5-diF-Ph
4811	4-C1	CO2Me	2,6-diF-Ph
4812	4-C1	CO2Me	3,4-diF-Ph
4813	4-Cl	CO2Me	3,5-diF-Ph
4814	4-Cl	CO2Me	2,4-diCl-Ph
4815	4-C1	CO2Me	2,5-diCl-Ph
4816	4-C1	CO2Me	2,6-diCl-Ph
4817	4-C1	CO2Me	3,4-diCl-Ph
4818	4-Cl	CO2Me	3,5-diCl-Ph
4819	4-C1	CO2Me	3,4-diCF3-Ph
4820	4-C1	CO2Me	3,5-diCF3-Ph
4821	4-C1	CO2Me	5-C1-2-MeO-Ph
4822	4-C1	CO2Me	5-Cl-2-Me-Ph
4823	4-Cl	CO2Me	2-F-5-Me-Ph
4824	4-C1	CO2Me	3-F-5-morpholino-Ph
4825	4-C1	CO2Me	3,4-OCH2O-Ph
4826	4-C1	CO2Me	3,4-OCH2CH2O-Ph
4827	4-C1	CO2Me	2-MeO-5-CONH2-Ph
4828	4-C1	CO2Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
4829	4-C1	CO2Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
4830	4-C1	CO2Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
4831	4-C1	CO2Me	1-naphthyl
4832	4-C1	CO2Me	2-naphthyl
4833	4-C1	CO2Me	2-thienyl
4834	4-C1	CO2Me	3-thienyl
4835	4-C1	CO2Me	2-furanyl
4836	4-C1	CO2Me	3-furanyl
4837	4-C1	CO2Me	2-pyridyl
4838	4-Cl	CO2Me	3-pyridyl
4839	4-C1	CO2Me	4-pyridyl
4840	4-C1	CO2Me	2-indolyl
4841	4-C1	CO2Me	3-indolyl
4842	4-C1	CO2Me	5-indoly1
4843	4-Cl	CO2Me	6-indolyl
4844	4-C1	CO2Me	3-indazolyl
4845	4-C1	CO2Me	5-indazolyl
4846	4-C1	CO2Me	6-indazolyl
4847	4-C1	CO2Me	2-imidazolyl
4848	4-C1	CO2Me	3-isoxazoyl
4849	4-C1	CO2Me	3-pyrazolyl
4850	4-C1	CO2Me	2-thiadiazolyl
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4851	4-C1	CO2Me	2-thiazolyl
4852	4-C1	CO2Me	5-Ac-4-Me-2-thiazolyl
4853	4-C1	CO2Me	5-AC-4-Me-2-thiazoly1
4854	4-C1		<u> </u>
		CO2Me CO2Me	2-benzimidazolyl
4855	4-C1		5-benzimidazolyl
4856	4-Cl	CO2Me	2-benzothiazolyl
4857	4-C1	CO2Me	5-benzothiazolyl
4858	4-Cl	CO2Me	2-benzoxazolyl
4859	4-C1	CO2Me	5-benzoxazolyl
4860	4-C1	CO2Me	1-adamantyl
4861	4-C1	CO2Me	2-adamantyl
4862	4-Cl	CO2Me	i-Pr
4863	4-C1	CO2Me	t-Bu
4864	4-C1	CO2Me	c-Hex
4865	4-C1	CO2Me	CH2CH2OMe
4866	4-Cl	CO2Me	CH2CONH2
4867	4-C1	CO2Me	CH2CO2Me
4868	4-C1	CO2Me	CH(CH2Ph)CO2Me
4869	4-C1	CO2Me	CH2CH2NMe2
4870	4-C1	CO2Me	benzyl
4871	4-C1	CO2Me	phenethyl
4872	4-C1	CO2Me	2-(morpholin-1-yl)-Et
4873	4-C1	Ac	Ph
4874	4-C1	Ac	3-CN-Ph
4875	4-Cl	Ac	3-COMe-Ph
4876	4-C1	Ac	3-CO2Me-Ph
4877	4-C1	Ac	3-CONH2-Ph
4878	4-C1	Ac	3-CONHMe-Ph
4879	4-C1	Ac	3-F-Ph
4880	4-C1	· Ac	3-C1-Ph
4881	4-C1	Ac	3-Br-Ph
4882	4-C1	Ac	3-SO2NH2-Ph
4883	4-C1	Ac	3-SO2NHMe-Ph
4884	4-C1	Ac	3-CF3-Ph
4885	4-C1	Ac	3-OMe-Ph
4886	4-C1	Ac	3-SMe-Ph
4887	4-C1	Аc	3-SOMe-Ph
4888	4-C1	Ac	3-SO2Me-Ph
4889	4-C1	Ac	3-OH-Ph
4890	4-Cl	Ac	3-CH2OH-Ph
4891	4-Cl	Ac	3-CHOHMe-Ph
4892	4-C1	Ac	3-COH (Me) 2-Ph
4893	4-C1	Ac	3-Me-Ph
4894	4-Cl	Ac	3-Et-Ph
4895	4-C1	Ac	3-iPr-Ph
4896	4-C1	Ac	3-tBu-Ph
4897	4-Cl	Ac	3-CH2CO2Me-Ph
4898	4-C1	Ac	3-(1-piperidinyl)-Ph
4899	4-C1	Ac	3-(1-pyrrolidinyl)-Ph
4900	4-C1	Ac	3-(2-imidazolyl)-Ph
4901	4-C1	Ac	3-(1-imidazolyl)-Ph
4901	4-C1	AC	3-(1-1m1dazoly1)-Ph

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4902	4-C1	Ac	3-(2-thiazoly1)-Ph
4903	4-C1	Ac	3-(3-pyrazolyl)-Ph
4904	4-C1	Ac	3-(1-pyrazolyl)-Ph
4905	4-Cl	Ac	3-(5-Me-1-tetrazolyl)-Ph
4906	4-C1	Ac	3-(1-Me-5-tetrazoly1)-Ph
4907	4-C1	Ac	3-(2-pyridyl)-Ph
4908	4-C1	Ac	3-(2-thienyl)-Ph
4909	4-C1	Ac	3-(2-furanyl)-Ph
4910	4-Cl	Ac .	4-CN-Ph
4911	4-C1	Ac	4-COMe-Ph
4912	4-C1	Ac	4-CO2Me-Ph
4913	4-C1	Ac	4-CONH2-Ph
4914	4-C1	Ac	4-CONHMe-Ph
4915	4-C1	Ac	4-CONHPh-Ph
4916	4-C1	Ac	4-F-Ph
4917	4-C1	Ac	4-Cl-Ph
4918	4-C1	Ac	4-Br-Ph
4919	4-C1	Ac	4-SO2NH2-Ph
4920	4-C1	Ac	4-SO2NHMe-Ph
4921	4-C1	Ac	4-CF3-Ph
4922	4-C1	Ac	4-OMe-Ph
4923	4-C1	Ac	4-SMe-Ph
4924	4-C1	Ac	4-SOMe-Ph
4925	4-C1	Ac	4-SO2Me-Ph
4926	4-C1	Ac	4-OH-Ph
4927	4-C1	Ac	4-CH2OH-Ph
4928	4-C1	Ac	4-CHOHMe-Ph
4929	4-C1	Ac	4-COH (Me) 2-Ph
4930	4-C1	Ac	4-Me-Ph
4931	4-C1	Ac	4-Et-Ph
4932	4-C1	Ac	4-iPr-Ph
4933	4-C1	Ac	4-tBu-Ph
4934	4-C1	Ac	4-CH2CO2Me-Ph
4935	4-C1	Ac	4-(1-piperidinyl)-Ph
4936	4-C1	Ac	4-(1-pyrrolidinyl)-Ph
4937	4-C1	Ac	4-(2-imidazolyl)-Ph
4938	4-C1	Ac	4-(1-imidazolyl)-Ph
4939	4-C1	Ac	4-(2-thiazolyl)-Ph
4940	4-C1	Ac	4-(3-pyrazolyl)-Ph
4941	4-C1	Ac	4-(1-pyrazolyl)-Ph
4942	4-C1	Ac	4-(5-Me-1-tetrazoly1)-Ph
4943	4-C1	Ac	4-(1-Me-5-tetrazolyl)-Ph
4944	4-Cl	AC	4-(2-pyridyl)-Ph
4945	4-C1	Ac	4-(2-thienyl)-Ph
4946	4-C1	Ac	4-(2-furanyl)-Ph
4947	4-C1	Ac	2-CN-Ph
4948	4-C1		2-CN-PH 2-COMe-Ph
4949	4-C1	AC	
4949		Ac	2-CO2Me-Ph
4950	4-Cl	Ac	2-CONH2-Ph
	4-C1	Ac	2-CONHMe-Ph
4952	4-C1	Ac	2-F-Ph

4953	4-C1	Ac	2-Cl-Ph
4954	4-Cl	Ac	2-Br-Ph
4955	4-C1	. Ac	2-SO2NH2-Ph
4956	4-C1	Ac	2-SO2NHMe-Ph
4957	4-C1	Ac	2-CF3-Ph
4958	4-C1	Ac	2-OMe-Ph
4959	4-C1	Ac	2-SMe-Ph
4960	4-C1	Ac	2-SOMe-Ph
4961	4-C1	Ac	2-SO2Me-Ph
4962	4-C1	Ac	2-OH-Ph
4963	4-C1	Ac	2-CH2OH-Ph
4964	4-C1	Ac	2-CHOHMe-Ph
4965	4-Cl	Ac	2-COH (Me) 2-Ph
4966	4-C1	Ac	2-Me-Ph
4967	4-C1	Ac	2-Et-Ph
4968	4-C1	Ac	2-iPr-Ph
4969	4-C1	Ac	2-tBu-Ph
4970	4-C1	Ac	2-CH2CO2Me-Ph
4971	4-C1	Ac	2-(1-piperidinyl)-Ph
4972	4-C1	Ac	2-(1-pyrrolidinyl)-Ph
4973	4-Cl	Ac	2-(2-imidazolyl)-Ph
4974	4-Cl	Ac	2-(1-imidazolyl)-Ph
4975	4-C1	Ac	2-(2-thiazolyl)-Ph
4976	4-C1	Ac	2-(3-pyrazoly1)-Ph
4977	4-C1	Ac	2-(1-pyrazolyl)-Ph
4978	4-C1	Ac	2-(5-Me-1-tetrazoly1)-Ph
4979	4-C1	Ac	2-(1-Me-5-tetrazoly1)-Ph
4980	4-C1	Ac	2-(2-pyridyl)-Ph
4981	4-C1	Ac	2-(2-thienyl)-Ph
4982	4-C1	Ac	2-(2-furanyl)-Ph
4983	4-C1	Ac	2,4-diF-Ph
4984	4-C1	Ac	2,5-diF-Ph
4985	4-C1	Ac	2,6-diF-Ph
4986	4-C1	Ac	3,4-diF-Ph
4987	4-C1	Ac	3,5-diF-Ph
4988	4-C1	Ac	2,4-diCl-Ph
4989	4-Cl	Ac	2,5-diCl-Ph
4990	4-C1	Ac	2,6-diCl-Ph
4991	4-C1	Ac	3,4-diCl-Ph
4992	4-C1	Ac	3,5-diCl-Ph
4993	4-C1	Ac	3,4-diCF3-Ph
4994	4-C1	AC	3,5-diCF3-Ph
4995	4-C1	Ac	5-C1-2-MeO-Ph
4996	4-C1	Ac	5-Cl-2-Me-Ph
4997	4-C1	Ac	2-F-5-Me-Ph
4998	4-C1	Ac	3-F-5-morpholino-Ph
4999	4-C1	Ac	3,4-OCH2O-Ph
5000	4-C1	Ac	3,4-OCH2CH2O-Ph
5001	4-C1	Ac	2-MeO-5-CONH2-Ph
5002	4-C1	Ac	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
5003	4-C1	Ac	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
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5004	4-C1	Ac	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
5005	4-Cl	Ac	1-naphthyl
5006	4-C1	Ac	2-naphthyl
5007	4-C1	Ac	2-thienyl
5008	4-C1	Ac	3-thienyl
5009	4-C1	Ac	2-furanyl
5010	4-C1	Ac	3-furanyl
5011	4-C1	Ac	2-pyridyl
5012	4-C1	Ac	3-pyridyl
5013	4-C1	Ac	4-pyridyl
5014	4-Cl	Ac	2-indolyl
5015	4-Cl	Ac	3-indolyl
5016	4-Cl	Ac	5-indolyl
5017	4-C1	Ac	6-indolyl
5018	4-C1	Ac	3-indazolyl
5019	4-C1	Ac	5-indazolyl
5020	4-Cl	Ac	6-indazolyl
5021	4-C1	Ac	2-imidazolyl
5022	4-C1	Ac	3-isoxazoyl
5023	4-C1	Ac	3-pyrazolyl
5024	4-C1	Ac	2-thiadiazolyl
5025	4-C1	Ac	2-thiazolyl
5026	4-C1	Ac	5-Ac-4-Me-2-thiazolyl
5027	4-C1	Ac	5-tetrazolyl
5028	4-C1	Ac	2-benzimidazolyl
5029	4-C1	Ac	5-benzimidazolyl
5030	4-C1	Ac	2-benzothiazolyl
5031	4-C1	Ac	5-benzothiazolyl
5032	4-C1	Ac	2-benzoxazolyl
5033	4-C1	Ac	5-benzoxazolyl
5034	4-C1	Ac	1-adamantyl
5035	4-Cl	Ac	2-adamantyl
5036	4-C1	Ac	i-Pr
5037	4-C1	Ac	t-Bu
5038	4-C1	Ac	c-Hex
5039	4-C1	Ac	CH2CH2OMe
5040	4-C1	Ac	CH2CONH2
5041	4-C1	Ac	CH2CO2Me
5042	4-C1	Ac	CH (CH2Ph) CO2Me
5043	4-C1	Ac	CH2CH2NMe2
5044	4-C1	Ac	benzyl
5045	4-C1	Ac	phenethyl
5046	4-C1	Ac	2-(morpholin-1-yl)-Et
5047	4-C1	COtBu	Ph
5048	4-C1	COtBu	3-CN-Ph
5049	4-C1	COtBu	3-COMe-Ph
5050	4-C1	COtBu	3-COME-Ph
5051	4-C1	COtBu	3-COZME-Ph
5052	4-C1	COtBu	3-CONHZ-Ph 3-CONHMe-Ph
5053	4-C1		
5054		COtBu	3-F-Ph
3034	4-C1	COtBu	3-C1-Ph

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5055	4-Cl	COtBu	3-Br-Ph
5056	4-C1	COtBu	3-SO2NH2-Ph
5057	4-C1	COtBu	3-SO2NHMe-Ph
5058	4-C1	COtBu	3-CF3-Ph
5059	4-Cl	COtBu	3-OMe-Ph
5060	4-Cl	COtBu	3-SMe-Ph
5061	4-C1	COtBu	3-SOMe-Ph
5062	4-C1	COtBu	3-SO2Me-Ph
5063	4-Cl	COtBu	3-0H-Ph
5064	4-C1	COtBu	3-CH2OH-Ph
5065	4-C1	COtBu	3-CHOHMe-Ph
5066	4-C1	COtBu	3-COH(Me)2-Ph
5067	4-C1	COtBu	3-Me-Ph
5068	4-Cl	COtBu	3-Et-Ph
5069	4-C1	COtBu	3-iPr-Ph
5070	4-C1	COtBu	3-tBu-Ph
5071	4-C1	COtBu	3-CH2CO2Me-Ph
5072	4-C1	COtBu	3-(1-piperidinyl)-Ph
5073	4-C1	COtBu	3-(1-pyrrolidinyl)-Ph
5074	4-C1	COtBu	3-(2-imidazolyl)-Ph
5075	4-C1	COtBu	3-(1-imidazolyl)-Ph
5076	4-C1	COtBu	3-(2-thiazolyl)-Ph
5077	4-C1	COtBu	3-(3-pyrazolyl)-Ph
5078	4-C1	COtBu	3-(1-pyrazolyl)-Ph
5079	4-C1	COtBu	3-(5-Me-1-tetrazolyl)-Ph
5080	4-Cl	COtBu	3-(1-Me-5-tetrazolyl)-Ph
5081	4-C1	COtBu	3-(2-pyridyl)-Ph
5082	4-C1	COtBu	3-(2-thieny1)-Ph
5083	4-C1	COtBu	3-(2-furanyl)-Ph
5084	4-C1	COtBu	4-CN-Ph
5085	4-C1	COtBu	4-COMe-Ph
5086	4-C1	COtBu	4-CO2Me-Ph
5087	4-C1	COtBu	4-CONH2-Ph
5088	4-C1	COtBu	4-CONHMe-Ph
5089	4-C1	COtBu	4-CONHPh-Ph
5090	4-Cl	COtBu	4-F-Ph
5091	4-C1	COtBu	4-Cl-Ph
5092	4-C1	COtBu	4-Br-Ph
5093	4-C1	COtBu	4-SO2NH2-Ph
5094	4-C1	COtBu	4-SO2NHMe-Ph
5095	4-C1	COtBu	4-CF3-Ph
5096	4-C1	COtBu	4-OMe-Ph
5097	4-C1	COtBu	4-SMe-Ph
5098	4-C1	COtBu	4-SOMe-Ph
5099	4-C1	COtBu	4-S02Me-Ph
5100	4-C1	COtBu	4-OH-Ph
5101	4-C1	COtBu	4-CH2OH-Ph
5102	4-C1	COtBu	4-CHOHMe-Ph
5102	4-C1	COtBu	4-CHOHME-PH 4-COH (Me) 2-Ph
5104	4-C1	COtBu	4-COn (Me) 2-Ph 4-Me-Ph
5104			
2102	4-C1	COtBu	4-Et-Ph

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5106	4-C1	COtBu	4-iPr-Ph
5107	4-C1	COtBu	4-tBu-Ph
5108	4-C1	COtBu	4-CH2CO2Me-Ph
5109	4-C1	COtBu	4-(1-piperidinyl)-Ph
5110	4-Cl	COtBu	4-(1-pyrrolidiny1)-Ph
5111	4-C1	COtBu	4-(2-imidazolyl)-Ph
5112	4-C1	COtBu	4-(1-imidazolyl)-Ph
5113	4-Cl	COtBu	4-(2-thiazolyl)-Ph
5114	4-Cl	COtBu	4-(3-pyrazolyl)-Ph
5115	4-Cl	COtBu	4-(1-pyrazolyl)-Ph
5116	4-C1	COtBu	4-(5-Me-1-tetrazolyl)-Ph
5117	4-Cl	COtBu	4-(1-Me-5-tetrazolyl)-Ph
5118	4-Cl	COtBu	4-(2-pyridyl)-Ph
5119	4-C1	COtBu	4-(2-thienyl)-Ph
5120	4-C1	COtBu	4-(2-furanyl)-Ph
5121	4-C1	COtBu	2-CN-Ph
5122	4-Cl	COtBu	2-COMe-Ph
5123	4-C1	COtBu	2-CO2Me-Ph
5124	4-Cl	COtBu	2-CONH2-Ph
5125	4-C1	COtBu	2-CONHMe-Ph
5126	4-Cl	COtBu	2-F-Ph
5127	4-C1	COtBu	2-C1-Ph
5128	4-C1	COtBu	2-Br-Ph
5129	4-Cl	COtBu	2-SO2NH2-Ph
5130	4-C1	COtBu	2-SO2NHMe-Ph
5131	4-Cl	COtBu	2-CF3-Ph
5132	4-Cl	COtBu	2-OMe-Ph
5133	4-Cl	COtBu	2-SMe-Ph
5134	4-C1	COtBu	2-SOMe-Ph
5135	4-C1	COtBu	2-SO2Me-Ph
5136	4-C1	COtBu	2-OH-Ph
5137	4-Cl	COtBu	2-CH2OH-Ph
5138	4-Cl	COtBu	2-CHOHMe-Ph
5139	4-C1	COtBu	2-COH (Me) 2-Ph
5140	4-C1	COtBu	2-Me-Ph
5141	4-C1	COtBu	2-Et-Ph
5142	4-Cl	COtBu	2-iPr-Ph
5143	4-C1	COtBu	2-tBu-Ph
5144	4-C1	COtBu	2-CH2CO2Me-Ph
5145	4-C1	COtBu	2-(1-piperidinyl)-Ph
5146	4-Cl	COtBu	2-(1-pyrrolidinyl)-Ph
5147	4-C1	COtBu	2-(2-imidazolyl)-Ph
5148	4-Cl	COtBu	2-(1-imidazolyl)-Ph
5149	4-Cl	COtBu	2-(2-thiazolyl)-Ph
5150	4-C1	COtBu	2-(3-pyrazolyl)-Ph
5151	4-C1	COtBu	2-(1-pyrazolyl)-Ph
5152	4-C1	COtBu	2-(5-Me-1-tetrazolyl)-Ph
5153	4-Cl	COtBu	2-(1-Me-5-tetrazoly1)-Ph
5154	4-Cl	COtBu	2-(2-pyridyl)-Ph
5155	4-C1	COtBu	2-(2-thienyl)-Ph
5156	4-C1	COtBu	2-(2-furanyl)-Ph

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5157	4-C1	COtBu	2,4-diF-Ph
5158	4-C1	COtBu	2,5-diF-Ph
5159	4-C1	COtBu	2,6-diF-Ph
5160	4-C1	COtBu	3,4-diF-Ph
5161	4-Cl	COtBu	3,5-diF-Ph
5162	4-C1	COtBu	2,4-diCl-Ph
5163	4-C1	COtBu	2,5-diCl-Ph
5164	4-Cl	COtBu	2,6-diCl-Ph
5165	4-C1	COtBu	3,4-diCl-Ph
5166_	4-C1	COtBu	3,5-diCl-Ph
5167	4-C1	COtBu	3,4-diCF3-Ph
5168	4-C1	COtBu	3,5-diCF3-Ph
5169	4-Cl	COtBu	5-C1-2-MeO-Ph
5170	4-C1	COtBu	5-Cl-2-Me-Ph
5171	4-Cl	COtBu	2-F-5-Me-Ph
5172	4-C1	COtBu	3-F-5-morpholino-Ph
5173	4-C1	COtBu	3,4-OCH2O-Ph
5174	4-C1	COtBu	3,4-OCH2CH2O-Ph
5175	4-C1	COtBu	2-MeO-5-CONH2-Ph
5176	4-C1	COtBu	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
5177	4-C1	COtBu	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
5178	4-C1	COtBu	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
5179	4-C1	COtBu	1-naphthyl
5180	4-C1	COtBu	2-naphthyl
5181	4-C1	COtBu	2-thienyl
5182	4-C1	COtBu	3-thienyl
5183	4-C1	COtBu	2-furanyl
5184	4-C1	COtBu	3-furanyl
5185	4-C1	COtBu	2-pyridyl
5186	4-C1	COtBu	3-pyridyl
5187	4-C1	COtBu	4-pyridyl
5188	4-C1	COtBu	2-indolyl
5189	4-C1	COtBu	3-indolyl
5190	4-C1	COtBu	5-indolyl
5191	4-C1	COtBu	6-indolyl
5192	4-C1	COtBu	3-indazolyl
5193	4-C1	COtBu	5-indazolyl
5194	4-C1	COtBu	6-indazolyl
5195	4-C1	COtBu	2-imidazolyl
5196	4-C1	COtBu	3-isoxazoyl
5197	4-C1	COtBu	3-pyrazolyl
5198	4-C1	COtBu	2-thiadiazolyl
5199	4-C1	COtBu	2-thiazolyl
5200	4-C1	COtBu	5-Ac-4-Me-2-thiazolyl
5201	4-Cl	COtBu	5-tetrazolyl
5202	4-C1	COtBu	2-benzimidazolyl
5203	4-C1	COtBu	5-benzimidazolyl
5204	4-C1	COtBu	2-benzothiazolyl
5205	4-C1	COtBu	5-benzothiazolyl
5206	4-C1	COtBu	2-benzoxazolyl
5207	4-C1		
2407	#-CT	COtBu	5-benzoxazolyl

S208 4-Cl COUBU 2-adamantyl	5208	T 4 C1	COFPI	1 adamented
S210		4-C1	COtBu	1-adamantyl
S211				
S212				
S213				
S214				
S215				
S216				
S217				
S218				
S219 4-C1 COtBu Phenethyl				<u> </u>
S220				
S221				
S222 4-C1 SO2Me 3-CN-Ph			COtBu	2-(morpholin-1-yl)-Et
S223	5221		SO2Me	Ph
S224	5222	4-C1	SO2Me	3-CN-Ph
S225 4-Cl SO2Me 3-CONH2-Ph	5223	4-C1	SO2Me	3-COMe-Ph
S225 4-Cl SO2Me 3-CONH2-Ph	5224			
5226 4-C1 SO2Me 3-CONHMe-Ph 5227 4-C1 SO2Me 3-F-Ph 5228 4-C1 SO2Me 3-Br-Ph 5229 4-C1 SO2Me 3-Br-Ph 5230 4-C1 SO2Me 3-SO2NH2-Ph 5231 4-C1 SO2Me 3-SO2NHMe-Ph 5232 4-C1 SO2Me 3-CF3-Ph 5233 4-C1 SO2Me 3-SMe-Ph 5234 4-C1 SO2Me 3-SMe-Ph 5235 4-C1 SO2Me 3-SO2Me-Ph 5236 4-C1 SO2Me 3-CH2OH-Ph 5237 4-C1 SO2Me 3-CH2OH-Ph 5239 4-C1 SO2Me 3-CH2OH-Ph 5239 4-C1 SO2Me 3-CH2OH-Ph 5240 4-C1 SO2Me 3-CH2OH-Ph 5241 4-C1 SO2Me 3-CH2OH-Ph 5242 4-C1 SO2Me 3-Et-Ph 5243 4-C1 SO2Me 3-Et-Ph	5225			
S227	5226		SO2Me	
S228				
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5236 4-Cl SO2Me 3-SO2Me-Ph 5237 4-Cl SO2Me 3-OH-Ph 5238 4-Cl SO2Me 3-CH2OH-Ph 5239 4-Cl SO2Me 3-CHOHMe-Ph 5240 4-Cl SO2Me 3-Me-Ph 5241 4-Cl SO2Me 3-Et-Ph 5242 4-Cl SO2Me 3-iPr-Ph 5243 4-Cl SO2Me 3-tBu-Ph 5244 4-Cl SO2Me 3-(H-2CO2Me-Ph 5245 4-Cl SO2Me 3-(1-piperidinyl)-Ph 5246 4-Cl SO2Me 3-(1-pyrrolidinyl)-Ph 5247 4-Cl SO2Me 3-(2-imidazolyl)-Ph 5248 4-Cl SO2Me 3-(2-imidazolyl)-Ph 5249 4-Cl SO2Me 3-(2-thiazolyl)-Ph 5250 4-Cl SO2Me 3-(2-thiazolyl)-Ph 5251 4-Cl SO2Me 3-(1-pyrazolyl)-Ph 5252 4-Cl SO2Me 3-(5-Me-1-tetrazolyl)-Ph 5253				
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5257 4-Cl SO2Me 3-(2-furanyl)-Ph				
5258 4-C1 SO2Me 4-CN-Ph				
	5258	4-C1	SO2Me	4-CN-Ph

5259	4-C1	SO2Me	1 COM- Di-
			4-COMe-Ph
5260	4-C1	SO2Me	4-CO2Me-Ph
5261	4-C1	SO2Me	4-CONH2-Ph
5262	4-C1	SO2Me	4-CONHMe-Ph
5263	4-C1	_SO2Me	4-CONHPh-Ph
5264	4-C1	SO2Me	4-F-Ph
5265	4-C1	SO2Me	4-Cl-Ph
5266	4-C1	SO2Me	4-Br-Ph
5267	4-C1	_SO2Me	4-SO2NH2-Ph
5268	4-C1	SO2Me	4-SO2NHMe-Ph
5269	4-C1	SO2Me	4-CF3-Ph
5270	4-C1	_SO2Me	4-OMe-Ph
5271	4-Cl	SO2Me	4-SMe-Ph
5272	4-Cl	SO2Me	4-SOMe-Ph
5273	4-C1	SO2Me	4-SO2Me-Ph
5274	4-Cl	SO2Me	4-OH-Ph
5275	4-Cl	SO2Me	4-CH2OH-Ph
5276	4-C1	SO2Me	4-CHOHMe-Ph
5277	4-C1	SO2Me	4-COH (Me) 2-Ph
5278	4-C1	SO2Me	4-Me-Ph
5279	4-C1	SO2Me	4-Et-Ph
5280	4-C1	SO2Me	4-iPr-Ph
5281	4-C1	SO2Me	4-tBu-Ph
5282	4-C1	SO2Me	4-CH2CO2Me-Ph
5283	4-C1	SO2Me	4-(1-piperidinyl)-Ph
5284	4-C1	SO2Me	4-(1-pyrrolidinyl)-Ph
5285	4-C1	SO2Me	4-(2-imidazolyl)-Ph
5286	4-C1	SO2Me	4-(1-imidazolyl)-Ph
5287	4-C1	SO2Me	4-(2-thiazolyl)-Ph
5288	4-C1	SO2Me	4-(3-pyrazolyl)-Ph
5289	4-C1	SO2Me	4-(1-pyrazolyl)-Ph
5290	4-C1	SO2Me	4-(5-Me-1-tetrazoly1)-Ph
5291	4-C1	SO2Me	4-(1-Me-5-tetrazolyl)-Ph
5292	4-C1	SO2Me	4-(2-pyridyl)-Ph
5293	4-C1	SO2Me	4-(2-thienyl)-Ph
5294	4-C1	SO2Me	4-(2-furanyl)-Ph
5295	4-C1	SO2Me	2-CN-Ph
5296	4-C1	SO2Me	2-COMe-Ph
5297	4-C1	SO2Me	2-CO2Me-Ph
5298	4-C1	SO2Me	2-CONH2-Ph
5299	4-C1	SO2Me	2-CONHMe-Ph
5300	4-C1	SO2Me	2-F-Ph
5301	4-C1	SO2Me	2-F-FH 2-Cl-Ph
5302	4-C1	SO2Me	2-Br-Ph
5303	4-C1	SO2Me	
5304	4-C1		2-SO2NH2-Ph
5304		SO2Me	2-SO2NHMe-Ph
	4-C1	SO2Me	2-CF3-Ph
5306	4-C1	SO2Me	2-OMe-Ph
5307	4-Cl	SO2Me	2-SMe-Ph
5308	4-C1	SO2Me	2-SOMe-Ph
5309	4-C1	SO2Me	2-SO2Me-Ph

5310	4-C1	SO2Me	7 OI Dh
5310			2-OH-Ph
	4-Cl	SO2Me	2-CH2OH-Ph
5312	4-Cl	SO2Me	2-CHOHMe-Ph
5313	4-Cl	SO2Me	2-COH (Me) 2-Ph
5314	4-C1	SO2Me	2-Me-Ph
5315	4-C1	SO2Me	2-Et-Ph
5316	4-C1	SO2Me	2-iPr-Ph
5317	4-C1	SO2Me	2-tBu-Ph
5318	4-C1	SO2Me	2-CH2CO2Me-Ph
5319	4-C1	SO2Me	2-(1-piperidinyl)-Ph
5320	4-C1	SO2Me	2-(1-pyrrolidinyl)-Ph
5321	4-C1	SO2Me	2-(2-imidazolyl)-Ph
5322	4-Cl	SO2Me	2-(1-imidazolyl)-Ph
5323	4-Cl	SO2Me	2-(2-thiazoly1)-Ph
5324	4-Cl	SO2Me	2-(3-pyrazolyl)-Ph
5325	4-Cl	SO2Me	2-(1-pyrazoly1)-Ph
5326	4-C1	SO2Me	2-(5-Me-1-tetrazolyl)-Ph
5327	4-C1	SO2Me	2-(1-Me-5-tetrazolyl)-Ph
5328	4-C1	SO2Me	2-(2-pyridyl)-Ph
5329	4-C1	SO2Me	2-(2-thienyl)-Ph
5330	4-C1	SO2Me	2-(2-furanyl)-Ph
5331	4-C1	SO2Me	2,4-diF-Ph
5332	4-C1	SO2Me	2,5-diF-Ph
5333	4-C1	SO2Me	2,6-diF-Ph
5334	4-Cl	SO2Me	3,4-diF-Ph
5335	4-C1	SO2Me	3,5-diF-Ph
5336	4-C1	SO2Me	2,4-diCl-Ph
5337	4-C1	SO2Me	2,5-diCl-Ph
5338	4-C1	SO2Me	2,6-diCl-Ph
5339	4-C1	SO2Me	3,4-diCl-Ph
5340	4-C1	SO2Me	3,5-diCl-Ph
5341	4-C1	SO2Me	3,4-diCF3-Ph
5342	4-C1	SO2Me	3,5-diCF3-Ph
5343	4-C1	SO2Me	5-C1-2-MeO-Ph
5344	4-C1	SO2Me	5-C1-2-Me-Ph
5345	4-C1	SO2Me	2-F-5-Me-Ph
5346	4-C1	SO2Me	3-F-5-morpholino-Ph
5347	4-C1	SO2Me	3,4-OCH2O-Ph
5348	4-C1	SO2Me	3,4-OCH2CH2O-Ph
5349	4-C1	SO2Me	2-MeO-5-CONH2-Ph
5350	4-C1	SO2Me	2-MeO-3-CONH2-PH 2-MeO-4-(1-Me-5-tetrazolyl)-Ph
5351	4-C1	SO2Me	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
5351	4-C1		
		SO2Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
5353	4-C1	SO2Me	1-naphthyl
5354	4-C1	SO2Me	2-naphthyl
5355	4-C1	SO2Me	2-thienyl
5356	4-C1	SO2Me	3-thienyl
5357	4-C1	SO2Me	2-furanyl
5358	4-C1	SO2Me	3-furanyl
5359	4-Cl	SO2Me	2-pyridyl
5360	4-Cl	SO2Me	3-pyridyl

5361	4-C1	SO2Me	4-pyridyl
5362	4-C1	SO2Me	2-indolyl
5363	4-C1	SO2Me	3-indolyl
5364	4-C1	SO2Me	5-indolyl
5365	4-C1	SO2Me	6-indolyl
5366	4-C1	SO2Me	3-indazolyl
5367	4-C1	SO2Me	5-indazolyl
5368	4-C1	SO2Me	6-indazolyl
5369	4-C1	SO2Me	2-imidazolyl
5370	4-Cl	SO2Me	3-isoxazoyl
5371	4-C1	SO2Me	3-pyrazolyl
5372	4-C1	SO2Me	2-thiadiazolyl
5373	4-C1	SO2Me	2-thiazolyl
5374	4-C1	SO2Me	5-Ac-4-Me-2-thiazolyl
5375	4-C1	SO2Me	5-tetrazolyl
5376	4-C1	SO2Me	2-benzimidazolyl
5377	4-C1	SO2Me	5-benzimidazolyl
5378	4-C1	SO2Me	2-benzothiazolyl
5379	4-Cl	SO2Me	5-benzothiazolyl
5380	4-C1	SO2Me	2-benzoxazolyl
5381	4-C1	SO2Me	5-benzoxazolyl
5382	4-Cl	SO2Me	1-adamanty1
5383	4-Cl	SO2Me	2-adamanty1
5384	4-C1	SO2Me	i-Pr
5385	4-C1	SO2Me	t-Bu
5386	4-C1	SO2Me	c-Hex
5387	4-C1	SO2Me	CH2CH2OMe
5388	4-C1	SO2Me	CH2CONH2
5389	4-C1	SO2Me	CH2CO2Me
5390	4-C1	SO2Me	CH (CH2Ph) CO2Me
5391	4-C1	SO2Me	CH2CH2NMe2
5392	4-C1	SO2Me	benzyl
5393	4-C1	SO2Me	phenethyl
5394	4-C1	SO2Me	2-(morpholin-1-yl)-Et
5395	4-C1	CH2COMe	Ph
5396	4-Cl	CH2COMe	3-CN-Ph
5397	4-Cl	CH2COMe	3-COMe-Ph
5398	4-Cl	CH2COMe	3-CO2Me-Ph
5399	4-Cl	CH2COMe	3-CONH2-Ph
5400	4-Cl	CH2COMe	3-CONHMe-Ph
5401	4-Cl	CH2COMe	3-F-Ph
5402	4-C1	CH2COMe	3-Cl-Ph
5403	4-C1	CH2COMe	3-Br-Ph
5404	4-C1	CH2COMe	3-SO2NH2-Ph
5405	4-Cl	CH2COMe	3-SO2NHMe-Ph
5406	4-Cl	CH2COMe	3-CF3-Ph
5407	4-C1	CH2COMe	3-OMe-Ph
5408	4-C1	CH2COMe	3-SMe-Ph
5409	4-C1	CH2COMe	3-SOMe-Ph
5410	4-C1	CH2COMe	3-SO2Me-Ph
5411	4-C1	CH2COMe	3-OH-Ph

5412	1 4 07	LOTTOCOMO	3 GU20U Ph
5413	4-C1		3-CH2OH-Ph
	4-Cl	CH2COMe	3-CHOHMe-Ph
5414	4-C1	CH2COMe	3-COH (Me) 2-Ph
5415	4-C1	CH2COMe	3-Me-Ph
5416	4-C1	CH2COMe	3-Et-Ph
5417	4-C1	CH2COMe	3-iPr-Ph
5418	4-C1		3-tBu-Ph
5419	4-C1	CH2COMe	3-CH2CO2Me-Ph
5420		CH2COMe	3-(1-piperidinyl)-Ph
5421		CH2COMe	3-(1-pyrrolidinyl)-Ph
5422			3-(2-imidazolyl)-Ph
5423		CH2COMe	3-(1-imidazoly1)-Ph
5424	4-Cl	CH2COMe	
5425	4-C1	CH2COMe	
5426	4-C1	CH2COMe	3-(1-pyrazolyl)-Ph
5427	4-C1	CH2COMe	3-(5-Me-1-tetrazolyl)-Ph
5428	4-C1	CH2COMe	3-(1-Me-5-tetrazolyl)-Ph
5429	4-C1	CH2COMe	3-(2-pyridy1)-Ph
5430	4-C1	CH2COMe	3-(2-thienyl)-Ph
5431	4-C1	CH2COMe	3-(2-furanyl)-Ph
5432	4-C1	CH2COMe	4-CN-Ph
5433	4-C1	CH2COMe	4-COMe-Ph
5434		CH2COMe	4-CO2Me-Ph
5435		CH2COMe	4-CONH2-Ph
5436	4-C1	CH2COMe	4-CONHMe-Ph
5437	4-C1	CH2COMe	4-CONHPh-Ph
5438	4-C1	CH2COMe	4-F-Ph
5439	4-C1	CH2COMe	4-Cl-Ph
5440	4-C1	CH2COMe	4-Br-Ph
5441	4-C1	CH2COMe	4-SO2NH2-Ph
5442	4-C1	CH2COMe	4-SO2NHMe-Ph
5443	4-C1	CH2COMe	4-CF3-Ph
5444	4-C1	CH2COMe	4-OMe-Ph
5445	4-C1	CH2COMe	4-SMe-Ph
5446		CH2COMe	4-SOMe-Ph
5447		CH2COMe	4-SO2Me-Ph
5448	4-C1	CH2COMe	4-OH-Ph
5449	4-C1	CH2COMe	4-CH2OH-Ph
5450	4-C1	CH2COMe	4-CHOHMe-Ph
5451	4-C1	CH2COMe	4-CHOMMe-FH 4-COH (Me) 2-Ph
5452	4-C1	CH2COMe	4-COH (Me) 2-PH 4-Me-Ph
5453			
5454	4-Cl	CH2COMe	4-Et-Ph
	4-C1	CH2COMe	4-iPr-Ph
5455	4-C1	CH2COMe	4-tBu-Ph
5456	4-C1	CH2COMe	4-CH2CO2Me-Ph
5457	4-C1	CH2COMe	4-(1-piperidinyl)-Ph
5458	4-C1	CH2COMe	4-(1-pyrrolidinyl)-Ph
5459	4-C1	CH2COMe	4-(2-imidazoly1)-Ph
5460	4-C1	CH2COMe	4-(1-imidazolyl)-Ph
5461	4-C1	CH2COMe	4-(2-thiazolyl)-Ph
5462	4-Cl	CH2COMe	4-(3-pyrazolyl)-Ph

5463	4-C1	CH2COMe	4-(1-pyrazolyl)-Ph
5464	4-C1	CH2COMe	4-(5-Me-1-tetrazoly1)-Ph
5465	4-C1	CH2COMe	4-(1-Me-5-tetrazolyl)-Ph
5466	4-C1		4-(2-pyridy1)-Ph
5467	4-C1		4-(2-thienyl)-Ph
5468	4-C1	CH2COMe	4-(2-furanyl)-Ph
5469	4-C1	CH2COMe	2-CN-Ph
5470	4-C1	CH2COMe	2-COMe-Ph
5471	4-C1	CH2COMe	2-CO2Me-Ph
5472	4-Cl	CH2COMe	2-CONH2-Ph
5473	4-C1	CH2COMe	2-CONHMe-Ph
5474	4-C1	CH2COMe	2-F-Ph
5475	4-C1		2-Cl-Ph
5476	4-C1	CH2COMe	2-Br-Ph
5477	4-C1	CH2COMe	2-S02NH2-Ph
5478	4-C1	CH2COMe	2-SO2NHMe-Ph
5479	4-C1	CH2COMe	2-CF3-Ph
5480	4-C1	CH2COMe	2-OMe-Ph
5481	4-C1	CH2COMe	2-SMe-Ph
5482	4-C1	CH2COMe	2-SOMe-Ph
5483	4-C1	CH2COMe	2-SO2Me-Ph
5484	4-C1	CH2COMe	2-OH-Ph
5485	4-C1	CH2COMe	2-CH2OH-Ph
5486	4-C1	CH2COMe	2-CHOHMe-Ph
5487	4-C1	CH2COMe	2-COH (Me) 2-Ph
5488	4-C1	CH2COMe	2-Me-Ph
5489	4-C1	CH2COMe	2-Et-Ph
5490	4-C1	CH2COMe	2-iPr-Ph
5491	4-C1	CH2COMe	2-tBu-Ph
5492	4-C1	CH2COMe	2-CH2CO2Me-Ph
5493	4-C1	CH2COMe	2-(1-piperidinyl)-Ph
5494	4-C1	CH2COMe	2-(1-pyrrolidinyl)-Ph
5495	4-Cl	CH2COMe	2-(2-imidazolyl)-Ph
5496	4-C1	CH2COMe	2-(1-imidazolyl)-Ph
5497	4-C1	CH2COMe	2-(2-thiazolyl)-Ph
5498	4-C1	CH2COMe	2-(3-pyrazolyl)-Ph
5499	4-Cl	CH2COMe	2-(1-pyrazolyl)-Ph
5500	4-Cl	CH2COMe	2-(5-Me-1-tetrazolyl)-Ph
5501	4-Cl	CH2COMe	2-(1-Me-5-tetrazolyl)-Ph
5502	4-C1	CH2COMe	2-(2-pyridyl)-Ph
5503	4-C1	CH2COMe	2-(2-thienyl)-Ph
5504	4-C1	CH2COMe	2-(2-furanyl)-Ph
5505	4-C1	CH2COMe	2,4-diF-Ph
5506	4-C1	CH2COMe	2,5-diF-Ph
5507	4-C1	CH2COMe	2,6-diF-Ph
5508	4-C1	CH2COMe	3,4-diF-Ph
5509	4-Cl	CH2COMe	3,5-diF-Ph
5510	4-C1	CH2COMe	2,4-diCl-Ph
5511	4-C1	CH2COMe	2,5-diCl-Ph
5512	4-C1	CH2COMe	2,6-diCl-Ph
5513	4-C1	CH2COMe	3,4-diCl-Ph

5514	1 4 01	CHICOMO	3,5-diCl-Ph
5515		CH2COMe	
	4-Cl		3,4-diCF3-Ph
5516		CH2COMe	3,5-diCF3-Ph
5517	+	CH2COMe	5-C1-2-MeO-Ph
5518		CH2COMe	5-C1-2-Me-Ph
5519	4-C1		2-F-5-Me-Ph
5520	4-Cl		3-F-5-morpholino-Ph
5521	4-Cl		3,4-OCH2O-Ph
5522	4-C1	CH2COMe	3,4-OCH2CH2O-Ph
5523	4-C1		2-MeO-5-CONH2-Ph
5524	4-Cl	CH2COMe	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
5525	4-Cl	CH2COMe	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
5526	4-C1	CH2COMe	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
5527	4-Cl	CH2COMe	1-naphthyl
5528	4-C1	CH2COMe	2-naphthyl
5529	4-Cl	CH2COMe	2-thienyl
5530	4-Cl	CH2COMe	3-thienyl
5531	4-C1	CH2COMe	2-furanyl
5532	4-C1	CH2COMe	3-furanyl
5533	4-Cl	CH2COMe	2-pyridyl
5534	4-Cl	CH2COMe	3-pyridyl
5535	4-Cl	CH2COMe	4-pyridyl
5536	4-C1	CH2COMe	2-indolyl
5537	4-C1	CH2COMe	3-indolyl
5538	4-C1	CH2COMe	5-indolyl
5539	4-C1	CH2COMe	6-indolyl
5540	4-C1	CH2COMe	3-indazolyl
5541	4-C1	CH2COMe	5-indazolyl
5542	4-C1	CH2COMe	6-indazolyl
5543	4-Cl	CH2COMe	2-imidazolyl
5544	4-C1	CH2COMe	3-isoxazoyl
5545	4-C1	CH2COMe	3-pyrazolyl
5546	4-Cl	CH2COMe	2-thiadiazolyl
5547	4-C1	CH2COMe	2-thiazolyl
5548	4-C1	CH2COMe	5-Ac-4-Me-2-thiazolyl
5549	4-C1	CH2COMe	5-tetrazolyl
5550	4-C1	CH2COMe	2-benzimidazolyl
5551	4-C1	CH2COMe	5-benzimidazolyl
5552	4-C1	CH2COMe	2-benzothiazolyl
5553	4-C1	CH2COMe	5-benzothiazolyl
5554	4-C1	CH2COMe	2-benzoxazolyl
5555	4-C1	CH2COMe	5-benzoxazolyl
5556	4-C1	CH2COMe	1-adamanty1
5557	4-C1	CH2COMe	2-adamantyl
5558	4-C1	CH2COMe	i-Pr
5559	4-C1	CH2COMe	t-Bu.
5560	4-C1	CH2COMe	c-Hex
5561	4-C1	CH2COMe	CH2CH2OMe
5562	4-C1	CH2COMe	CH2CONH2
5563	4-C1	CH2COMe	CH2CO2Me
5564	4-C1	CH2COMe	CH (CH2Ph) CO2Me
		CALE COLAC	CII (CIIAI II) COALIC

5565	4-C1	CH2COMe	CH2CH2NMe2
5566	4-Cl	CH2COMe	benzyl
5567	4-C1	CH2COMe	phenethyl
5568	4-C1	CH2COMe	2-(morpholin-1-yl)-Et

Table 3

5

4	2-F	3-CO2Me-Ph
5	2-F	3-CONH2-Ph
6	2-F	3-CONHMe-Ph
7	2-F	3-F-Ph
8	2-F	3-Cl-Ph
9	2-F	3-Br-Ph
10	2-F	3-SO2NH2-Ph
11	2-F	3-SO2NHMe-Ph
12	2-F	3-CF3-Ph
13	2-F	3-OMe-Ph
14	2-F	3-SMe-Ph
15	2-F	3-SOMe-Ph
16	2-F	3-SO2Me-Ph
17	2-F	3-OH-Ph
18	2-F	3-CH2OH-Ph
19	2-F	3-CHOHMe-Ph
20	2-F	3-COH(Me) 2-Ph
21	2-F	3-Me-Ph
22	2-F	3-He-Ph
23	2-F	3-iPr-Ph
24	2-F 2-F	
25	2-F	3-tBu-Ph
26		3-CH2CO2Me-Ph
27	2-F	3-(1-piperidinyl)-Ph
	2-F	3-(1-pyrrolidinyl)-Ph
28	2-F	3-(2-imidazolyl)-Ph
29	2-F	3-(1-imidazolyl)-Ph
30	2-F	3-(2-thiazolyl)-Ph
	2-F	3-(3-pyrazolyl)-Ph
32	2-F	3-(1-pyrazolyl)-Ph
33 34	2-F	3-(5-Me-1-tetrazolyl)-Ph
	2-F	3-(1-Me-5-tetrazolyl)-Ph
35	2-F	3-(2-pyridyl)-Ph
36	2-F	3-(2-thienyl)-Ph
37	2-F	3-(2-furanyl)-Ph
38	2-F	4-CN-Ph
. 39	2-F	4-COMe-Ph
40	2-F	4-CO2Me-Ph
41	2-F	4-CONH2-Ph
42	2-F	4-CONHMe-Ph
43	2-F	4-CONHPh-Ph
44	2-F	4-F-Ph
45	2-F	4-Cl-Ph
46	2-F	4-Br-Ph
47	2-F	4-SO2NH2-Ph
48	2-F	4-SO2NHMe-Ph
49	2-F	4-CF3-Ph
50	2-F	4-OMe-Ph
51	2-F	4-SMe-Ph
52	2-F	4-SOMe-Ph
53	2-F	4-S02Me-Ph
54	2-F	4-OH-Ph
	<u> </u>	4-011-111

55	2-F	4-CH2OH-Ph
56	2-F	4-CHOHMe-Ph
57	2-F	4-COH (Me) 2-Ph
58	2-F	4-CON (Me) 2-Ph 4-Me-Ph
59	2-F	4-Me-Fit 4-Et-Ph
60	2-F	4-EC-Ph 4-iPr-Ph
61	2-F 2-F	
62	2-F	4-tBu-Ph
63	2-F	4-CH2CO2Me-Ph 4-(1-piperidiny1)-Ph
64	2-F	4-(1-piperidiny1)-Ph
65		<u> </u>
66	2-F	4-(2-imidazoly1)-Ph
67	2-F	4-(1-imidazoly1)-Ph
	2-F	4-(2-thiazolyl)-Ph
68	2-F	4-(3-pyrazolyl)-Ph
69	2-F	4-(1-pyrazolyl)-Ph
70	2-F	4-(5-Me-1-tetrazoly1)-Ph
72	2-F	4-(1-Me-5-tetrazolyl)-Ph
73	2-F	4-(2-pyridyl)-Ph
74	2-F	4-(2-thienyl)-Ph
	2-F	4-(2-furanyl)-Ph
75	2-F	2-CN-Ph
76	2-F	2-COMe-Ph
77	2-F	2-CO2Me-Ph
78	2-F	2-CONH2-Ph
79	2-F	2-CONHMe-Ph
80	2-F	2-F-Ph
81 82	2-F 2-F	2-Cl-Ph
82		2-Br-Ph
	2-F 2-F	2-SO2NH2-Ph
8 <u>4</u> 85	2-F 2-F	2-SO2NHMe-Ph
86	2-F	2-CF3-Ph
87	2-F	2-OMe-Ph
88	2-F 2-F	2-SMe-Ph
89		2-SOMe-Ph
90	2-F 2-F	2-S02Me-Ph
91	2-F 2-F	2-OH-Ph 2-CH2OH-Ph
92	2-F 2-F	2-CH2OH-Ph 2-CHOHMe-Ph
93		
94	2-F 2-F	2-COH (Me) 2-Ph
95		2-Me-Ph
96	2-F 2-F	2-Et-Ph
97		2-iPr-Ph
98	2-F	2-tBu-Ph
98	2-F 2-F	2-CH2CO2Me-Ph
	2-F	2-(1-piperidinyl)-Ph
100		2-(1-pyrrolidinyl)-Ph
101	2-F	2-(2-imidazolyl)-Ph
102	2-F	2-(1-imidazolyl)-Ph
103	2-F	2-(2-thiazolyl)-Ph
104	2-F	2-(3-pyrazolyl)-Ph
105	2-F	2-(1-pyrazolyl)-Ph

	 	
106	2-F	2-(5-Me-1-tetrazoly1)-Ph
107	2-F	2-(1-Me-5-tetrazoly1)-Ph
108	2-F	2-(2-pyridyl)-Ph
109	2-F	2-(2-thienyl)-Ph
110	2-F	2-(2-furany1)-Ph
111	2-F	2,4-diF-Ph
112	2-F	2,5-diF-Ph
113	2-F	2,6-diF-Ph
114	2-F	3,4-diF-Ph
115	2-F	3,5-diF-Ph
116	2-F	2,4-diCl-Ph
117	2-F	2,5-diCl-Ph
118	2-F	2,6-diCl-Ph
119	2-F	3,4-diCl-Ph
120	2-F	3,5-diCl-Ph
121	2-F	3,4-diCF3-Ph
122	2-F	3,5-diCF3-Ph
123	2-F	5-Cl-2-MeO-Ph
124	2-F	5-Cl-2-Me-Ph
125	2-F	2-F-5-Me-Ph
126	2-F	3-F-5-morpholino-Ph
127	2-F	3,4-OCH2O-Ph
128	2-F	3,4-OCH2CH2O-Ph
129	2-F	2-MeO-5-CONH2-Ph
130	2-F	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
131	2-F	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
132	2-F	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
133	2-F	1-naphthyl
134	2-F	2-naphthyl
135	2-F	2-thienyl
136	2-F	3-thienyl
137	2-F	2-furanyl
138	2-F	3-furanyl
139	2-F	2-pyridyl
140	2-F	3-pyridyl
141	2-F	3-pyridyl 4-pyridyl
142	2-F	2-indolyl
143	2-F	3-indolyl
144	2-F	5-indolyl
145	2-F	
		6-indolyl
146 147	2-F	3-indazolyl
	2-F	5-indazolyl
148	2-F	6-indazolyl
149	2-F	2-imidazolyl
150	2-F	3-isoxazoyl
151	2-F	3-pyrazolyl
152	2-F	2-thiadiazolyl
153	2-F	2-thiazolyl
154	2-F	5-Ac-4-Me-2-thiazolyl
155		
156	2-F 2-F	5-tetrazolyl 2-benzimidazolyl

157 2-F			
159 2-F 5-benzothiazolyl 160 2-F 2-benzoxazolyl 161 2-F 5-benzoxazolyl 162 2-F 1-adamantyl 163 2-F 1-adamantyl 164 2-F 1-Pr 1-Pr 165 2-F 1-Pr 165 2-F 1-Pu 166 2-F 1-Pu 166 2-F 1-Pu 166 2-F 1-Pu 166 2-F 167 2-F 167 2-F 168 2-F 169	157	2-F	5-benzimidazolyl
159 2-F 2-benzothiazolyl 160 2-F 2-benzoxazolyl 161 2-F 5-benzoxazolyl 162 2-F 1-adamantyl 163 2-F 1-adamantyl 163 2-F 1-pr 165 2-F 1-pr 165 2-F 1-pr 165 2-F 1-pr 165 2-F 1-pr 166 2-F 1-pr 166 2-F 167 2-F 168 2-F 168 2-F 169 2-F 1	158	2-F	2-benzothiazolyl
160 2-F 2-benzoxazolyl 161 2-F 5-benzoxazolyl 162 2-F 1-adamantyl 163 2-F 2-adamantyl 164 2-F i-Pr 165 2-F t-Bu 166 2-F c-Hex 167 2-F CH2CH2OME 168 2-F CH2CONH2 169 2-F CH2COME 170 2-F CH2CH2NMe2 170 2-F CH2CH2NMe2 171 2-F CH2CH2NMe2 172 2-F phenethyl 173 2-F phenethyl 174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F 3-CN-Ph 177 3-F 3-CN-Ph 178 3-F 3-COME-Ph 179 3-F 3-COME-Ph 180 3-F 3-CONHMe-Ph 181 3-F 3-CONHMe-Ph 182 3-F 3-CI-Ph 183 3-F 3-CI-Ph 184 3-F 3-CJ-Ph 185 3-F 3-CJ-Ph 186 3-F 3-CJ-Ph 187 3-F 3-CM-Ph 188 3-F 3-CJ-Ph 189 3-F 3-CM-Ph 190 3-F 3-CM-Ph 191 3-F 3-CM-Ph 192 3-F 3-CM-Ph 193 3-F 3-CM-Ph 194 3-F 3-CM-Ph 195 3-F 3-CM-Ph 196 3-F 3-CH2OM-Ph 197 3-F 3-CH2OM-Ph 198 3-F 3-CH2OM-Ph 199 3-F 3-CH2OM-Ph 196 3-F 3-CH2OM-Ph 197 3-F 3-CH2OM-Ph 198 3-F 3-CH2OM-Ph 199 3-F 3-CH2COM-Ph 199 3-F 3-CH2C	159	2-F	
161 2-F	160	2-F	
162 2-F	161	2-F	
163 2-F i-Pr 164 2-F i-Pr 165 2-F t-Bu 166 2-F c-Hex 167 2-F CH2CDME 168 2-F CH2COME 169 2-F CH2COME 170 2-F CH2CH2NMe2 171 2-F CH2CH2NMe2 172 2-F Denzyl 173 2-F Denethyl 174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F 3-CON-Ph 177 3-F 3-COME-Ph 178 3-F 3-COME-Ph 179 3-F 3-COME-Ph 179 3-F 3-CONHM-Ph 180 3-F 3-CONHM-Ph 181 3-F 3-SONH2-Ph 182 3-F 3-SONH2-Ph 183 3-F 3-SONH2-Ph 184 3-F 3-SOM-Ph 185 <	162		
164 2-F 1-Pr 1-65 2-F 1-Bu 1-66 2-F 1-Bu 1-Pr 1			
165 2-F t-Bu 166 2-F C-Hex 167 2-F CH2CH2OMe 168 2-F CH2COME 169 2-F CH2COME 170 2-F CH2CH2NMe2 171 2-F CH2CH2NMe2 171 2-F Denzyl 173 2-F Denzyl 174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F 3-CN-Ph 177 3-F 3-COMP-Ph 178 3-F 3-COMP-Ph 179 3-F 3-COMH2-Ph 180 3-F 3-CONH2-Ph 181 3-F 3-CONHM-Ph 182 3-F 3-SO2NH2-Ph 183 3-F 3-SO2NHM-Ph 184 3-F 3-SO2NHM-Ph 185 3-F 3-SOM-Ph 186 3-F 3-SOM-Ph 189 3-F 3-SOM-Ph 190 <td></td> <td></td> <td></td>			
166			
167 2-F CH2CONH2 168 2-F CH2CONH2 169 2-F CH2CO2Me 170 2-F CH(CH2Ph) CO2Me 171 2-F CH2CH2NMe2 172 2-F benzyl 173 2-F phenethyl 174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F 3-CN-Ph 177 3-F 3-COM-Ph 178 3-F 3-COM-Ph 179 3-F 3-COMH2-Ph 180 3-F 3-CONH2-Ph 181 3-F 3-CONHM-Ph 182 3-F 3-SOZNH2-Ph 183 3-F 3-SOZNH2-Ph 184 3-F 3-SOZNHM-Ph 185 3-F 3-SOZNHM-Ph 186 3-F 3-SOZM-Ph 187 3-F 3-SOM-Ph 189 3-F 3-SOM-Ph 190 3-F 3-CH2OH-Ph			· · · · · · · · · · · · · · · · · · ·
168			· · · · · · · · · · · · · · · · · · ·
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170		2-F	
171 2-F CH2CH2NMe2 172 2-F benzyl 173 2-F phenethyl 174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F Ph 177 3-F 3-COM-Ph 178 3-F 3-COM-Ph 179 3-F 3-COMH2-Ph 180 3-F 3-CONH2-Ph 181 3-F 3-CONHME-Ph 182 3-F 3-CONHME-Ph 183 3-F 3-SOZNHB-Ph 184 3-F 3-SOZNHB-Ph 185 3-F 3-SOZNHB-Ph 186 3-F 3-SOZNHB-Ph 187 3-F 3-SOME-Ph 188 3-F 3-SOME-Ph 189 3-F 3-SOME-Ph 190 3-F 3-CH2OH-Ph 191 3-F 3-CHOHME-Ph 192 3-F 3-CHOHME-Ph 193 3-F 3-CHOHME-Ph <			
172 2-F			
173 2-F			
174 2-F 2-(morpholin-1-yl)-Et 175 3-F Ph 176 3-F 3-CN-Ph 177 3-F 3-COM-Ph 178 3-F 3-COM-Ph 179 3-F 3-COMH-Ph 180 3-F 3-CONHM-Ph 181 3-F 3-F-Ph 182 3-F 3-SO2NH-Ph 183 3-F 3-SO2NH-Ph 184 3-F 3-SO2NH-Ph 185 3-F 3-SO2NH-Ph 186 3-F 3-SO2NH-Ph 187 3-F 3-OM-Ph 188 3-F 3-SOM-Ph 189 3-F 3-SOM-Ph 190 3-F 3-SOM-Ph 191 3-F 3-CH2OH-Ph 192 3-F 3-CH2OH-Ph 193 3-F 3-CHOHM-Ph 194 3-F 3-CHOHM-Ph 195 3-F 3-M-Ph 196 3-F 3-EL-Ph 1			
175 3-F Ph 176 3-F 3-CN-Ph 177 3-F 3-COMe-Ph 178 3-F 3-COMH2-Ph 179 3-F 3-CONH2-Ph 180 3-F 3-CONHME-Ph 181 3-F 3-FPh 182 3-F 3-SO2NH2-Ph 183 3-F 3-SO2NH2-Ph 184 3-F 3-SO2NHME-Ph 185 3-F 3-SO2NHME-Ph 186 3-F 3-SOME-Ph 187 3-F 3-SOME-Ph 188 3-F 3-SOME-Ph 190 3-F 3-SOME-Ph 191 3-F 3-CHOHME-Ph 192 3-F 3-CHOHME-Ph 193 3-F 3-CHOHME-Ph 194 3-F 3-CHOHME-Ph 195 3-F 3-CHOHME-Ph 196 3-F 3-CHOHME-Ph 197 3-F 3-CHOHME-Ph 198 3-F 3-E-Ph			
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177 3-F 3-COMe-Ph 178 3-F 3-CO2Me-Ph 179 3-F 3-CONH2-Ph 180 3-F 3-CONHMe-Ph 181 3-F 3-F-Ph 182 3-F 3-Br-Ph 183 3-F 3-Br-Ph 184 3-F 3-SO2NH2-Ph 185 3-F 3-SO2NHMe-Ph 186 3-F 3-CF3-Ph 187 3-F 3-OMe-Ph 188 3-F 3-SMe-Ph 189 3-F 3-SOME-Ph 190 3-F 3-SOME-Ph 191 3-F 3-CH2OH-Ph 192 3-F 3-CH2OH-Ph 193 3-F 3-CH2OH-Ph 194 3-F 3-CHOHME-Ph 195 3-F 3-CHOHME-Ph 196 3-F 3-CH2OH-Ph 197 3-F 3-CH2OH-Ph 198 3-F 3-CH2OH-Ph 199 3-F 3-CH2OH-Ph 199 3-F 3-CH2OH-Ph 199 3-F <t< td=""><td></td><td></td><td></td></t<>			
178 3-F 3-CO2Me-Ph 179 3-F 3-CONH2-Ph 180 3-F 3-CONHMe-Ph 181 3-F 3-F-Ph 182 3-F 3-Br-Ph 183 3-F 3-Br-Ph 184 3-F 3-SO2NH2-Ph 185 3-F 3-SO2NHMe-Ph 186 3-F 3-OMe-Ph 187 3-F 3-OMe-Ph 188 3-F 3-SOMe-Ph 190 3-F 3-SOMe-Ph 191 3-F 3-OH-Ph 192 3-F 3-CH2OH-Ph 193 3-F 3-CH2OH-Ph 194 3-F 3-CHOHME-Ph 195 3-F 3-CHOHME-Ph 196 3-F 3-Me-Ph 197 3-F 3-Et-Ph 198 3-F 3-Et-Ph 199 3-F 3-Et-Ph 199 3-F 3-CH2CO2Me-Ph 200 3-F 3-(1-piperidinyl) -Ph			
179 3-F 3-CONH2-Ph 180 3-F 3-CONHMe-Ph 181 3-F 3-F-Ph 182 3-F 3-Br-Ph 183 3-F 3-Br-Ph 184 3-F 3-SO2NH2-Ph 185 3-F 3-SO2NHMe-Ph 186 3-F 3-CF3-Ph 187 3-F 3-OMe-Ph 188 3-F 3-SOMe-Ph 189 3-F 3-SOMe-Ph 190 3-F 3-CH2OH-Ph 191 3-F 3-CH2OH-Ph 192 3-F 3-CHOHMe-Ph 193 3-F 3-CHOHMe-Ph 194 3-F 3-CHOHMe-Ph 195 3-F 3-Me-Ph 196 3-F 3-Me-Ph 197 3-F 3-Et-Ph 198 3-F 3-Et-Ph 199 3-F 3-CH2CO2Me-Ph 200 3-F 3-(1-piperidinyl)-Ph 201 3-F 3-(1-piperidinyl)-Ph 202 3-F 3-(2-imidazolyl)-Ph 203			
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181 3-F 3-F-Ph 182 3-F 3-C1-Ph 183 3-F 3-Br-Ph 184 3-F 3-SO2NH2-Ph 185 3-F 3-SO2NHMe-Ph 186 3-F 3-CF3-Ph 187 3-F 3-OMe-Ph 188 3-F 3-SMe-Ph 189 3-F 3-SO2Me-Ph 190 3-F 3-SO2Me-Ph 191 3-F 3-OH-Ph 192 3-F 3-CH2OH-Ph 193 3-F 3-CH2OH-Ph 194 3-F 3-CHOHMe-Ph 195 3-F 3-Me-Ph 196 3-F 3-Et-Ph 197 3-F 3-iPr-Ph 198 3-F 3-tBu-Ph 199 3-F 3-CH2CO2Me-Ph 200 3-F 3-(1-piperidinyl)-Ph 201 3-F 3-(1-piperidinyl)-Ph 202 3-F 3-(2-imidazolyl)-Ph 203 3-F 3-(2-imidazolyl)-Ph 204 3-F 3-(2-thiazolyl)-Ph <td< td=""><td></td><td></td><td></td></td<>			
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203 3-F 3-(1-imidazolyl)-Ph 204 3-F 3-(2-thiazolyl)-Ph 205 3-F 3-(3-pyrazolyl)-Ph 206 3-F 3-(1-pyrazolyl)-Ph			
204 3-F 3-(2-thiazolyl)-Ph 205 3-F 3-(3-pyrazolyl)-Ph 206 3-F 3-(1-pyrazolyl)-Ph			
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206 3-F 3-(1-pyrazolyl)-Ph			
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208	3-F	3-(1-Me-5-tetrazolyl)-Ph
209	3-F	3-(2-pyridyl)-Ph
210	3-F	3-(2-thienyl)-Ph
211	3-F	3-(2-furanyl)-Ph
212	3-F	4-CN-Ph
213	3-F	4-COMe-Ph
214	3-F	4-CO2Me-Ph
215	3-F	4-CONH2-Ph
216	3-F	4-CONHMe-Ph
217	3-F	4-CONHPh-Ph
218	3-F	4-F-Ph
219	3-F	4-Cl-Ph
220	3-F	4-Br-Ph
221	3-F	4-SO2NH2-Ph
222	3-F	4-SO2NHMe-Ph
223	3-F	4-CF3-Ph
224	3-F	4-OMe-Ph
225	3-F	4-SMe-Ph
226	3-F	4-SOMe-Ph
227	3-F	4-SO2Me-Ph
228	3-F	4-OH-Ph
229	3-F	4-CH2OH-Ph
230	3-F	4-CHOHMe-Ph
231	3-F	4-COH(Me)2-Ph
232	3-F	4-Me-Ph
233	3-F	4-Et-Ph
234	3-F	4-iPr-Ph
235	3-F	4-tBu-Ph
236	3-F	4-CH2CO2Me-Ph
237	3-F	4-(1-piperidinyl)-Ph
238	3-F	4-(1-pyrrolidinyl)-Ph
239	3-F	4-(2-imidazoly1)-Ph
240	3-F	4-(1-imidazolyl)-Ph
241	3-F	4-(2-thiazolyl)-Ph
242	3-F	4-(3-pyrazolyl)-Ph
243	3-F	4-(1-pyrazolyl)-Ph
244	3-F	4-(5-Me-1-tetrazolyl)-Ph
245	3-F	4-(1-Me-5-tetrazolyl)-Ph
246	3-F	4-(2-pyridyl)-Ph
247	3-F	4-(2-thienyl)-Ph
248	3-F	4-(2-furanyl)-Ph
249	3-F	2-CN-Ph
250	3-F	2-COMe-Ph
251	3-F	2-CO2Me-Ph
252	3-F	2-CONH2-Ph
253	3-F	2-CONHMe-Ph
254	3-F	2-F-Ph
255	3-F	2-Cl-Ph
256	3-F	2-Br-Ph
257	3-F	2-SO2NH2-Ph
258	3-F	2-SO2NHMe-Ph

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261 3-F 2-SMe-Ph 262 3-F 2-SOMe-Ph 263 3-F 2-SOMe-Ph 264 3-F 2-HPh 265 3-F 2-CH2OH-Ph 265 3-F 2-CH2OH-Ph 266 3-F 2-CH2OH-Ph 267 3-F 2-CH(Me) 2-Ph 268 3-F 2-Me-Ph 269 3-F 2-Et-Ph 270 3-F 2-IP-Ph 271 3-F 2-IP-Ph 272 3-F 2-CH2OZMe-Ph 273 3-F 2-(1-piperidinyl) -Ph 274 3-F 2-(1-piperidinyl) -Ph 275 3-F 2-(1-piperidinyl) -Ph 276 3-F 2-(1-piperidinyl) -Ph 277 3-F 2-(2-midazolyl) -Ph 278 3-F 2-(1-piperidinyl) -Ph 279 3-F 2-(1-piperidinyl) -Ph 279 3-F 2-(1-piperidinyl) -Ph 280 3-F 2-(1-piperidinyl) -Ph 281 3-F 2-(1-piperidinyl) -Ph 282 3-F 2-(2-thiazolyl) -Ph 283 3-F 2-(3-pyrazolyl) -Ph 284 3-F 2-(1-pyrazolyl) -Ph 285 3-F 2-(1-pyrazolyl) -Ph 286 3-F 2-(1-pyrazolyl) -Ph 287 3-F 2-(1-Me-5-tetrazolyl) -Ph 288 3-F 2-(2-pyridyl) -Ph 289 3-F 2-(2-pyridyl) -Ph 280 3-F 2-(2-furanyl) -Ph 281 3-F 2-(2-furanyl) -Ph 282 3-F 2-(3-pyridyl) -Ph 283 3-F 2-(4-diF-Ph 284 3-F 2,5-diF-Ph 285 3-F 2,4-diF-Ph 286 3-F 2,5-diF-Ph 287 3-F 2,6-diF-Ph 289 3-F 3,5-diF-Ph 290 3-F 2,5-diCl-Ph 291 3-F 2,6-diCl-Ph 292 3-F 3,5-diCl-Ph 293 3-F 3,5-diCP3-Ph 294 3-F 3,5-diCP3-Ph 295 3-F 3,4-diCP3-Ph 296 3-F 3,5-diCP3-Ph 297 3-F 3-G-2-Me-Ph 298 3-F 3-G-1-2-Me-Ph 299 3-F 3-F-5-morpholino-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2CP-Ph 302 3-F 3,4-OCH2CP-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-5-CONH2-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph	259	3-F	2-CF3-Ph
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271 3-F 2-tBu-Ph 272 3-F 2-CH2CO2Me-Ph 273 3-F 2-(1-piperidinyl)-Ph 274 3-F 2-(1-pyrrolidinyl)-Ph 275 3-F 2-(2-imidazolyl)-Ph 276 3-F 2-(2-imidazolyl)-Ph 277 3-F 2-(2-thiazolyl)-Ph 278 3-F 2-(2-thiazolyl)-Ph 279 3-F 2-(1-pyrazolyl)-Ph 280 3-F 2-(1-me-5-tetrazolyl)-Ph 281 3-F 2-(1-Me-5-tetrazolyl)-Ph 282 3-F 2-(2-pyridyl)-Ph 283 3-F 2-(2-pyridyl)-Ph 284 3-F 2-(2-pyridyl)-Ph 285 3-F 2,4-dif-Ph 286 3-F 2,5-dif-Ph 287 3-F 2,6-dif-Ph 288 3-F 3,4-dif-Ph 290 3-F 2,5-dif-Ph 291 3-F 2,5-dicl-Ph 292 3-F 3,5-dicl-Ph 293 3-F 3,4-dicl-Ph 294 3-F 3,5-dicl-Ph 295 3-F 3,4-dicf-Ph 296 3-F 3,5-dicf-Ph 297 3-F 3,5-dicf-Ph 298 3-F 3,5-dicf-Ph 299 3-F 3,5-dicf-Ph 290 3-F 3,5-dicf-Ph 291 3-F 3,5-dicf-Ph 292 3-F 3,5-dicf-Ph 293 3-F 3,5-dicf-Ph 294 3-F 3,5-dicf-Ph 295 3-F 3,4-dicf-Ph 296 3-F 3,5-dicf-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-MeO-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 3-CONH2-F-CONH2-Ph 304 3-F 2-MeO-5-CONH2-Ph 305 3-F 3-CONH2-5-tetrazolyl)-Ph 306 3-F 3-CONH2-5-tetrazolyl)-Ph 307 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 308 3-F 1-naphthyl			
272		3-F	<u> </u>
273	272		
274	273		
275	274	3_F	
276		3-E	
277 3-F 2-(2-thiazolyl)-Ph 278 3-F 2-(3-pyrazolyl)-Ph 279 3-F 2-(1-pyrazolyl)-Ph 280 3-F 2-(5-Me-1-tetrazolyl)-Ph 281 3-F 2-(1-Me-5-tetrazolyl)-Ph 281 3-F 2-(1-Me-5-tetrazolyl)-Ph 282 3-F 2-(2-pyridyl)-Ph 283 3-F 2-(2-pyridyl)-Ph 284 3-F 2-(2-furanyl)-Ph 285 3-F 2,4-diF-Ph 286 3-F 2,5-diF-Ph 287 3-F 2,6-diF-Ph 288 3-F 3,4-diF-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,4-diCl-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-MeO-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 304 3-F 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 1-naphthyl		3-5	
278		3-E	
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281 3-F 2-(1-Me-5-tetrazoly1)-Ph 282 3-F 2-(2-pyridy1)-Ph 283 3-F 2-(2-thieny1)-Ph 284 3-F 2-(2-furany1)-Ph 285 3-F 2,4-diF-Ph 286 3-F 2,5-diF-Ph 287 3-F 2,6-diF-Ph 288 3-F 3,4-diF-Ph 289 3-F 3,5-diCl-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,6-diCl-Ph 292 3-F 3,4-diCl-Ph 293 3-F 3,4-diCF3-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,4-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-MeO-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 3,4-OCH2O-Ph 304 3-F 3-MeO-5-CONH2-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 1-naphthy1			
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283 3-F 2-(2-thienyl)-Ph 284 3-F 2-(2-furanyl)-Ph 285 3-F 2,4-diF-Ph 286 3-F 2,5-diF-Ph 287 3-F 2,6-diF-Ph 288 3-F 3,4-diF-Ph 289 3-F 3,5-diF-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,4-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 1-naphthyl		3 5	
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286 3-F 2,5-diF-Ph 287 3-F 2,6-diF-Ph 288 3-F 3,4-diF-Ph 289 3-F 3,5-diF-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,4-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-MeO-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazoly1)-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1			2-(2-Iurany1)-Pn
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288 3-F 3,4-dif-Ph 289 3-F 3,5-dif-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,5-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-MeO-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2CH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl		3-5	2,5-01F-PN
289 3-F 3,5-diF-Ph 290 3-F 2,4-diCl-Ph 291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,5-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2CH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			2,0-QIF-PN
290 3-F 2,4-dicl-Ph 291 3-F 2,5-dicl-Ph 292 3-F 2,6-dicl-Ph 293 3-F 3,4-dicl-Ph 294 3-F 3,5-dicl-Ph 295 3-F 3,4-dicF3-Ph 296 3-F 3,5-dicF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			3,4-Q1F-PN
291 3-F 2,5-diCl-Ph 292 3-F 2,6-diCl-Ph 293 3-F 3,4-diCl-Ph 294 3-F 3,5-diCl-Ph 295 3-F 3,4-diCf3-Ph 296 3-F 3,5-diCf3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			3,5-QIF-PN
292 3-F 2,6-dicl-Ph 293 3-F 3,4-dicl-Ph 294 3-F 3,5-dicl-Ph 295 3-F 3,4-dicF3-Ph 296 3-F 3,5-dicF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			
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294 3-F 3,5-diC1-Ph 295 3-F 3,4-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-C1-2-MeO-Ph 298 3-F 5-C1-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-4-(1-Me-5-tetrazoly1)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1			
295 3-F 3,4-diCF3-Ph 296 3-F 3,5-diCF3-Ph 297 3-F 5-Cl-2-MeO-Ph 298 3-F 5-Cl-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazolyl)-Ph 305 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			
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298 3-F 5-C1-2-Me-Ph 299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2CH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazoly1)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1	296		
299 3-F 2-F-5-Me-Ph 300 3-F 3-F-5-morpholino-Ph 301 3-F 3,4-OCH2O-Ph 302 3-F 3,4-OCH2CH2O-Ph 303 3-F 2-MeO-5-CONH2-Ph 304 3-F 2-MeO-4-(1-Me-5-tetrazoly1)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1			
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304 3-F 2-MeO-4-(1-Me-5-tetrazoly1)-Ph 305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1			
305 3-F 2-MeO-5-(1-Me-5-tetrazoly1)-Ph 306 3-F 3-CONH2-5-(1-Me-5-tetrazoly1)-Ph 307 3-F 1-naphthy1 308 3-F 2-naphthy1			
306 3-F 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 307 3-F 1-naphthyl 308 3-F 2-naphthyl			
307 3-F 1-naphthyl 308 3-F 2-naphthyl			
308 3-F 2-naphthyl			
309 3-F 2-thienyl			
	309	3-F	2-thienyl

310	3-F	3-thienyl
311	3-F	2-furanyl
312	3-F	3-furanyl
313	3-F	2-pyridyl
314	3-F	3-pyridyl
315	3-F	4-pyridyl
316	3-F	2-indolyl
317	3-F	3-indolyl
318	3-F	5-indolyl
319	3-F	6-indolyl
320	3-F	3-indazolyl
321	3-F	5-indazolyl
322	3-F	6-indazolyl
323	3-F	2-imidazolyl
324	3-F	3-isoxazoyl
325	3-F	3-pyrazolyl
326	3-F	2-thiadiazolyl
327	3-F	2-thiazolyl
328	3-F	5-Ac-4-Me-2-thiazolyl
329	3-F	5-tetrazolyl
330		2-benzimidazolyl
331	3-F	5-benzimidazolyl
332	3-F	2-benzothiazolyl
333	3-F	5-benzothiazolyl
334	3-F	2-benzoxazolyl
335	3-F	5-benzoxazolyl
336	3-F	1-adamantyl
337	3-F	2-adamantyl
338	3-F	i-Pr
-339	3-F	t-Bu
340	3-F	c-Hex
341	3-F	CH2CH2OMe
342	3-F	CH2CONH2
343	3-F	CH2CO2Me
344	3-F	CH(CH2Ph)CO2Me
345	3-F	CH2CH2NMe2
. 346	3-F 3-F	benzyl
347	3-F	phenethyl
348	3-F	2-(morpholin-1-yl)-Et
349	4-F	Ph
350	4-F	3-CN-Ph
351	4-F	3-COMe-Ph
352	4-F	3-CO2Me-Ph
353	4-F	3-CONH2-Ph
354	4-F	3-CONHMe-Ph
355	4-F	3-F-Ph
356	4-F	3-Cl-Ph
357	4-F	3-Br-Ph
358	4-F	3-SO2NH2-Ph
359	4-F	3-SO2NHMe-Ph
360	4-F	3-CF3-Ph
1		0 01 0 111

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361	4-F	3-OMe-Ph
362	4-F	3-SMe-Ph
363	4-F	3-SOMe-Ph
364	4-F	3-SO2Me-Ph
365	4-F	3-OH-Ph
366	4-F	3-CH2OH-Ph
367	4-F	3-CHOHMe-Ph
368	4-F	3-COH (Me) 2-Ph
369	4-F	3-Me-Ph
370	4-F	3-Et-Ph
371	4-F	3-iPr-Ph
372	4-F	3-tBu-Ph
373	4-F	3-CH2CO2Me-Ph
374	4-F	3-(1-piperidinyl)-Ph
375	4-F	3-(1-pyrrolidinyl)-Ph
376	4-F	3-(2-imidazolyl)-Ph
377	4-F	3-(1-imidazoly1)-Ph
378	4-F	3-(2-thiazoly1)-Ph
379	4-F	3-(3-pyrazolyl)-Ph
380	4-F	3-(1-pyrazolyl)-Ph
381	4-F	3-(5-Me-1-tetrazoly1)-Ph
382	4-F	3-(1-Me-5-tetrazolyl)-Ph
383	4-F	3-(2-pyridy1)-Ph
384	4-F	3-(2-thieny1)-Ph
385	4-F	3-(2-furany1)-Ph
386	4-F	4-CN-Ph
387	4-F	4-COMe-Ph
388	4-F	4-CO2Me-Ph
389	4-F	4-CONH2-Ph
390	4-F	4-CONHMe-Ph
391	4-F	4-CONHPh-Ph
392	4-F	4-F-Ph
393	4-F	4-Cl-Ph
394	4-F	4-Br-Ph
395	4-F	4-SO2NH2-Ph
396	4-F	4-SO2NHMe-Ph
397	4-F	4-CF3-Ph
398	4-F	4-OMe-Ph
399	4-F	4-SMe-Ph
400	4-F	4-SOMe-Ph
401	4-F	4-SO2Me-Ph
402	4-F	4-OH-Ph
403	4-F	4-CH2OH-Ph
404	4-F	4-CHOHMe-Ph
405	4-F	4-COH (Me) 2-Ph
406	4-F	4-Me-Ph
407	4-F	4-Me-Ph
408	4-F	4-iPr-Ph
409	4-F	
410	4-F	4-tBu-Ph 4-CH2CO2Me-Ph
411		
411	4-F	4-(1-piperidinyl)-Ph

140	T 4 ==	
412	4-F	4-(1-pyrrolidinyl)-Ph
413	4-F	4-(2-imidazolyl)-Ph
414	4-F	4-(1-imidazolyl)-Ph
415	4-F	4-(2-thiazolyl)-Ph
416	4-F	4-(3-pyrazoly1)-Ph
417	4-F	4-(1-pyrazolyl)-Ph
418	4-F	4-(5-Me-1-tetrazolyl)-Ph
419	4-F	4-(1-Me-5-tetrazolyl)-Ph
420	4-F	4-(2-pyridyl)-Ph
421	4-F	4-(2-thienyl)-Ph
422	4-F	4-(2-furanyl)-Ph
423	4-F	2-CN-Ph
424	4-F	2-COMe-Ph
425	4-F	2-CO2Me-Ph
426	4-F	2-CONH2-Ph
427	4-F	2-CONHMe-Ph
428	4-F	2-F-Ph
429	4-F	2-Cl-Ph
430	4-F	2-Br-Ph
431	4-F	2-SO2NH2-Ph
432	4-F	2-SO2NHMe-Ph
433	4-F	2-CF3-Ph
434	4-F	2-OMe-Ph
435	4-F	2-SMe-Ph
436	4-F	2-SOMe-Ph
437	4-F	2-SO2Me-Ph
438	4-F	2-OH-Ph
439	4-F	2-CH2OH-Ph
440	4-F	2-CHOHMe-Ph
441	4-F	2-COH (Me) 2-Ph
442	4-F	2-Me-Ph
443	4-F	2-Et-Ph
444	4-F	2-iPr-Ph
445	4-F	2-tBu-Ph
446	4-F	2-CH2CO2Me-Ph
447	4-F	2-(1-piperidinyl)-Ph
448	4-F	2-(1-pyrrolidinyl)-Ph
449	4-F	2-(2-imidazolyl)-Ph
450	4-F	2-(1-imidazoly1)-Ph
451	4-F	2-(2-thiazolyl)-Ph
452	4-F	2-(3-pyrazoly1)-Ph
453	4-F	2-(1-pyrazolyl)-Ph
454	4-F	2-(5-Me-1-tetrazolyl)-Ph
455	4-F	2-(1-Me-1-tetrazoly1)-Ph
456	4-F	2-(1-Me-3-tetrazory1)-Ph 2-(2-pyridy1)-Ph
457	4-F	2-(2-pyridy1)-Ph 2-(2-thieny1)-Ph
458	4-F	
458		2-(2-furanyl)-Ph
459	4-F	2,4-diF-Ph
	4-F	2,5-diF-Ph
461	4-F	2,6-diF-Ph
462	4-F	3,4-diF-Ph

163	1 4 12	2 5 2:7 72
463	4-F	3,5-diF-Ph
464	4-F	2,4-diCl-Ph
465	4-F	2,5-diCl-Ph
466	4-F	2,6-diCl-Ph
467	4-F	3,4-diCl-Ph
468	4-F	3,5-diCl-Ph
469	4-F	3,4-diCF3-Ph
470	4-F	3,5-diCF3-Ph
471	4-F	5-Cl-2-MeO-Ph
472	4-F	5-Cl-2-Me-Ph
473	4-F	2-F-5-Me-Ph
474	4-F	3-F-5-morpholino-Ph
475	4-F	3,4-OCH2O-Ph
476	4-F	3,4-OCH2CH2O-Ph
477	4-F	2-MeO-5-CONH2-Ph
478	4-F	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
479	4-F	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
480	4-F	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
481	4-F	1-naphthyl
482	4-F	2-naphthyl
483	4-F	2-thienyl
484	4-F	3-thienyl
485	4-F	2-furanyl
486	4-F	3-furanyl
487	4-F	2-pyridyl
488	4-F	3-pyridyl
489	4-F	4-pyridyl
490	4-F	2-indolyl
491	4-F	3-indolyl
492	4-F	5-indolyl
493	4-F	6-indolyl
494	4-F	3-indazolyl
495	4-F	5-indazolyl
496	4-F	6-indazolyl
497	4-F	2-imidazolyl
498	4-F	3-isoxazoyl
499	4-F	3-Isokazoyi 3-pyrazolyl
500	4-F	2-thiadiazolyl
501	4-F	2-thiadiazolyi 2-thiazolyl
502	4-F	5-Ac-4-Me-2-thiazolyl
503	4-F	5-tetrazolyl
504	4-F	2-benzimidazolyl
505	4-F	
506	4-F	5-benzimidazolyl
507	4-F	2-benzothiazolyl
508		5-benzothiazolyl
	4-F	2-benzoxazolyl
509	4-F	5-benzoxazolyl
510	4-F	1-adamantyl
511	4-F	2-adamantyl
512	4-F	i-Pr
513	4-F	t-Bu

514	1 4 2	_ 11
515	4-F	c-Hex
516	4-F	CH2CH2OMe
517	4-F	CH2CONH2
518	4-F	CH2CO2Me
	4-F	CH (CH2Ph) CO2Me
519	4-F	CH2CH2NMe2
520	4-F	benzyl
521	4-F	phenethyl
522	4-F	2-(morpholin-1-yl)-Et
523	3-C1	Ph
524	3-C1	3-CN-Ph
525	3-C1	3-COMe-Ph
526	3-C1	3-CO2Me-Ph
527	3-Cl	3-CONH2-Ph
528	3-C1	3-CONHMe-Ph
529	3-Cl	3-F-Ph
530	3-C1	3-C1-Ph
531	3-Cl	3-Br-Ph
532	3-Cl	3-SO2NH2-Ph
533	3-C1	3-SO2NHMe-Ph
534	3-C1	3-CF3-Ph
535	3-Cl	3-OMe-Ph
536	3-C1	3-SMe-Ph
537	3-C1	3-SOMe-Ph
538	3-C1	3-SO2Me-Ph
539	3-Cl	3-OH-Ph
540	.3-C1	3-CH2OH-Ph
541		3-CHOHMe-Ph
542 543	3-Cl 3-Cl	3-COH (Me) 2-Ph
544	3-C1	3-Me-Ph
545	3-C1	3-Et-Ph
546	3-C1	3-iPr-Ph
547		3-tBu-Ph
548	3-Cl	3-CH2CO2Me-Ph
549		3-(1-piperidinyl)-Ph
550	3-Cl 3-Cl	3-(1-pyrrolidinyl)-Ph
551	3-C1	3-(2-imidazolyl)-Ph 3-(1-imidazolyl)-Ph
552	3-C1	3-(1-1midazoiyi)-Ph 3-(2-thiazolyi)-Ph
553	3-C1	3-(2-chiazoly1)-Ph 3-(3-pyrazoly1)-Ph
554	3-C1	3-(3-pyrazoly1)-Ph 3-(1-pyrazoly1)-Ph
555	3-C1	3-(1-pyrazoly1)-Ph 3-(5-Me-1-tetrazoly1)-Ph
556	3-C1	3-(1-Me-5-tetrazoly1)-Ph
557	3-C1	
558	3-C1	3-(2-pyridy1)-Ph 3-(2-thieny1)-Ph
559	3-C1	
560	3-C1	3-(2-furany1)-Ph
561	3-C1	4-CN-Ph
562		4-COMe-Ph
563	3-C1	4-CO2Me-Ph
	3-C1	4-CONH2-Ph
564	3-C1	4-CONHMe-Ph

565	3-C1	4-CONHPh-Ph
566	3-C1	4-F-Ph
567	3-C1	4-Cl-Ph
568	3-C1	4-Br-Ph
569	3-C1	4-SO2NH2-Ph
570	3-C1	4-SO2NHMe-Ph
571	3-C1	4-CF3-Ph
572	3-C1	4-OMe-Ph
573	3-C1	4-SMe-Ph
574	3-C1	4-SOMe-Ph
575	3-C1	4-SO2Me-Ph
576	3-C1	4-OH-Ph
577	3-C1	4-CH2OH-Ph
578	3-C1	4-CHOHMe-Ph
579	3-C1	4-COH (Me) 2-Ph
580	3-C1	4-Me-Ph
581	3-C1	4-Et-Ph
582	3-C1	4-iPr-Ph
583	3-C1	4-tBu-Ph
584	3-C1	4-CH2CO2Me-Ph
585	3-C1	4-(1-piperidinyl)-Ph
586	3-C1	4-(1-pyrrolidinyl)-Ph
587	3-C1	4-(2-imidazolyl)-Ph
588	3-C1	4-(1-imidazoly1)-Ph
589	3-C1	4-(2-thiazolyl)-Ph
590	3-C1	4-(3-pyrazolyl)-Ph
591	3-C1	4-(1-pyrazolyl)-Ph
592	3-C1	4-(5-Me-1-tetrazoly1)-Ph
593	3-C1	4-(1-Me-5-tetrazolyl)-Ph
594	3-C1	4-(2-pyridyl)-Ph
595	3-C1	4-(2-thienyl)-Ph
596	3-C1	4-(2-furanyl)-Ph
597	3-C1	2-CN-Ph
598	3-C1	2-COMe-Ph
599	3-C1	2-CO2Me-Ph
600	3-C1	2-CONH2-Ph
601	3-C1	2-CONHMe-Ph
602	3-C1	2-F-Ph
603	3-C1	2-Cl-Ph
604	3-C1	2-Br-Ph
605	3-C1	2-SO2NH2-Ph
606	3-C1	2-SO2NHMe-Ph
607	3-C1	2-CF3-Ph
608	3-C1	2-OMe-Ph
609	3-C1	2-SMe-Ph
610	3-C1	2-SOMe-Ph
611	3-C1	2-SO2Me-Ph
612	3-C1	2-OH-Ph
613	3-C1	2-CH2OH-Ph
614	3-C1	2-CHOHMe-Ph
615	3-C1	2-COH (Me) 2-Ph

616 3-Cl 2-Me-Ph 617 3-Cl 2-Et-Ph 618 3-Cl 2-ipr-Ph 619 3-Cl 2-tBu-Ph 620 3-Cl 2-(1-piperidinyl)-Ph 621 3-Cl 2-(1-piperidinyl)-Ph 622 3-Cl 2-(1-piperidinyl)-Ph 623 3-Cl 2-(2-imidazolyl)-Ph 624 3-Cl 2-(1-imidazolyl)-Ph 625 3-Cl 2-(1-imidazolyl)-Ph 626 3-Cl 2-(1-imidazolyl)-Ph 627 3-Cl 2-(1-pyrazolyl)-Ph 628 3-Cl 2-(3-pyrazolyl)-Ph 629 3-Cl 2-(1-pyrazolyl)-Ph 629 3-Cl 2-(1-me-5-tetrazolyl)-Ph 630 3-Cl 2-(2-thienyl)-Ph 631 3-Cl 2-(2-pyridyl)-Ph 632 3-Cl 2-(2-thienyl)-Ph 633 3-Cl 2-(2-thienyl)-Ph 634 3-Cl 2-(3-pyrazolyl)-Ph 635 3-Cl 2-(5-di-Ph 636 3-Cl 2-(5-di-Ph 637 3-Cl 3-(1-pyrazolyl)-Ph 638 3-Cl 2-(3-pyridyl)-Ph 639 3-Cl 2-(2-thienyl)-Ph 630 3-Cl 2-(2-thienyl)-Ph 631 3-Cl 2-(2-thienyl)-Ph 632 3-Cl 2-(3-thienyl)-Ph 633 3-Cl 2-(3-thienyl)-Ph 634 3-Cl 2-(3-thienyl)-Ph 635 3-Cl 3-(3-di-Ph 636 3-Cl 3-(3-di-Ph 637 3-Cl 3-(3-di-Ph 638 3-Cl 3-(3-di-Ph 639 3-Cl 3-(3-di-Ph 640 3-Cl 3-(3-di-Ph 641 3-Cl 3-(3-di-Ph 642 3-Cl 3-(3-di-Ph 643 3-Cl 3-(3-di-Ph 644 3-Cl 3-(3-di-Ph 645 3-Cl 3-(3-di-Ph 646 3-Cl 3-(3-di-Ph 647 3-Cl 3-(3-di-Ph 648 3-Cl 3-(3-di-Ph 649 3-Cl 3-(3-di-Ph 649 3-Cl 3-(3-di-Ph 649 3-Cl 3-(3-di-Ph 650 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 651 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 652 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 653 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 654 3-Cl 3-CNH2-5-(1-Me-5-tetrazolyl)-Ph 655 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 656 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 657 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 658 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 659 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 650 3-Cl 2-maphthyl 650 3-Cl 2-maphthyl 650 3-Cl 2-maphthyl 660 3-Cl 3-pyridyl		1	
618 3-Cl 2-iPr-Ph 619 3-Cl 2-tBu-Ph 620 3-Cl 2-CH2CO2Me-Ph 621 3-Cl 2-(1-piperidinyl)-Ph 622 3-Cl 2-(1-pyrrolidinyl)-Ph 623 3-Cl 2-(1-pyrrolidinyl)-Ph 624 3-Cl 2-(1-inidazolyl)-Ph 625 3-Cl 2-(2-thiazolyl)-Ph 626 3-Cl 2-(3-pyrazolyl)-Ph 627 3-Cl 2-(1-pyrazolyl)-Ph 628 3-Cl 2-(5-Me-1-tetrazolyl)-Ph 629 3-Cl 2-(5-Me-1-tetrazolyl)-Ph 630 3-Cl 2-(2-pyridyl)-Ph 631 3-Cl 2-(2-thienyl)-Ph 632 3-Cl 2-(2-thienyl)-Ph 633 3-Cl 2-(2-thienyl)-Ph 634 3-Cl 2-(3-pyrazolyl)-Ph 635 3-Cl 2-(3-pyrazolyl)-Ph 636 3-Cl 2-(3-pyridyl)-Ph 637 3-Cl 2-(2-thienyl)-Ph 638 3-Cl 2-(2-thienyl)-Ph 639 3-Cl 2-(3-pyridyl)-Ph 630 3-Cl 2-(3-pyridyl)-Ph 631 3-Cl 2-(3-pyridyl)-Ph 632 3-Cl 2-(3-pyridyl)-Ph 633 3-Cl 2-(3-pyridyl)-Ph 634 3-Cl 2-(3-pyridyl)-Ph 635 3-Cl 2-(3-pyridyl)-Ph 636 3-Cl 2-(3-pyridyl)-Ph 637 3-Cl 3-(3-dif-Ph 638 3-Cl 2-(3-dif-Ph 639 3-Cl 3-(3-dif-Ph 640 3-Cl 3-(3-difl-Ph 640 3-Cl 3-(3-difl-Ph 641 3-Cl 3-(3-difl-Ph 642 3-Cl 3-(3-difl-Ph 643 3-Cl 3-(3-difl-Ph 644 3-Cl 3-(3-difl-Ph 645 3-Cl 3-(3-difl-Ph 646 3-Cl 3-(3-difl-Ph 647 3-Cl 3-(3-difl-Ph 648 3-Cl 3-F-5-morpholino-Ph 649 3-Cl 3-F-5-morpholino-Ph 640 3-Cl 2-F-5-Me-Ph 651 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 652 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 653 3-Cl 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 654 3-Cl 3-CNH2-5-(1-Me-5-tetrazolyl)-Ph 655 3-Cl 2-maphthyl 657 3-Cl 2-maphthyl 658 3-Cl 3-cnaphthyl 659 3-Cl 3-cnaphthyl 659 3-Cl 3-cnaphthyl 650 3-Cl 3-pyridyl 661 3-Cl 3-pyridyl 662 3-Cl 3-pyridyl 663 3-Cl 3-pyridyl 664 3-Cl 2-indolyl		3-CT	
619			
620 3-Cl 2-(1-piperidinyl)-Ph 621 3-Cl 2-(1-piperidinyl)-Ph 622 3-Cl 2-(1-piperidinyl)-Ph 623 3-Cl 2-(2-imidazolyl)-Ph 624 3-Cl 2-(1-imidazolyl)-Ph 625 3-Cl 2-(2-thiazolyl)-Ph 626 3-Cl 2-(3-pyrazolyl)-Ph 627 3-Cl 2-(1-piperidinyl)-Ph 628 3-Cl 2-(1-pyrazolyl)-Ph 629 3-Cl 2-(1-pyrazolyl)-Ph 629 3-Cl 2-(1-me-5-tetrazolyl)-Ph 630 3-Cl 2-(2-pyridyl)-Ph 631 3-Cl 2-(2-pyridyl)-Ph 632 3-Cl 2-(2-furanyl)-Ph 633 3-Cl 2-(2-furanyl)-Ph 634 3-Cl 2-(3-pyrazolyl)-Ph 635 3-Cl 2-(2-furanyl)-Ph 636 3-Cl 2-(3-pyridyl)-Ph 637 3-Cl 3-(3-piperidinyl)-Ph 638 3-Cl 2-(3-pyridyl)-Ph 639 3-Cl 2-(3-pyridyl)-Ph 639 3-Cl 2-(3-pyridyl)-Ph 639 3-Cl 3-(3-piperidinyl)-Ph 640 3-Cl 3-(3-piperidinyl)-Ph 640 3-Cl 3-(3-piperidinyl)-Ph 641 3-Cl 3-(3-piperidinyl)-Ph 642 3-Cl 3-(3-piperidinyl)-Ph 643 3-Cl 3-(3-piperidinyl)-Ph 644 3-Cl 3-(3-piperidinyl)-Ph 645 3-Cl 3-(3-piperidinyl)-Ph 646 3-Cl 3-(3-piperidinyl)-Ph 647 3-Cl 3-(3-piperidinyl)-Ph 648 3-Cl 3-(3-piperidinyl)-Ph 649 3-Cl 3-(3-piperidinyl)-Ph 649 3-Cl 3-(3-piperidinyl)-Ph 650 3-Cl 3-(3-piperidinyl)-Ph 651 3-Cl 3-(3-piperidinyl)-Ph 653 3-Cl 2-meO-5-(1-Me-5-tetrazolyl)-Ph 654 3-Cl 3-(2-meO-5-(1-Me-5-tetrazolyl)-Ph 655 3-Cl 2-mephthyl 656 3-Cl 2-naphthyl 657 3-Cl 3-pyridyl 668 3-Cl 3-pyridyl 660 3-Cl 3-pyridyl 661 3-Cl 3-pyridyl 663 3-Cl 3-pyridyl 664 3-Cl 3-pyridyl 665 3-Cl 3-pyridyl 666 3-Cl 2-pyridyl 667 3-Cl 3-pyridyl 668 3-Cl 3-pyridyl			2-iPr-Ph
621 3-C1 2-(1-piperidinyl)-Ph 622 3-C1 2-(1-pyrrolidinyl)-Ph 623 3-C1 2-(2-imidazolyl)-Ph 624 3-C1 2-(2-tmidazolyl)-Ph 625 3-C1 2-(2-tmidazolyl)-Ph 626 3-C1 2-(2-tmidazolyl)-Ph 627 3-C1 2-(1-pyrazolyl)-Ph 628 3-C1 2-(5-Me-1-tetrazolyl)-Ph 629 3-C1 2-(1-Me-5-tetrazolyl)-Ph 630 3-C1 2-(2-pyridyl)-Ph 631 3-C1 2-(2-tminyl)-Ph 632 3-C1 2-(2-tminyl)-Ph 633 3-C1 2-(2-tminyl)-Ph 634 3-C1 2-(2-tminyl)-Ph 635 3-C1 2-(2-furanyl)-Ph 636 3-C1 2,5-dif-Ph 637 3-C1 3,4-dif-Ph 638 3-C1 3,5-dif-Ph 639 3-C1 3,5-dif-Ph 640 3-C1 3,5-dicl-Ph 641 3-C1 3,5-dicl-Ph 642 3-C1 3,5-dicl-Ph 643 3-C1 3,4-dicf-Ph 644 3-C1 3,5-dicf-Ph 645 3-C1 3,4-dicf-Ph 646 3-C1 3,5-dicf-Ph 647 3-C1 3,5-dicf-Ph 648 3-C1 3,5-dicf-Ph 649 3-C1 3,5-dicf-Ph 650 3-C1 2-F-5-Me-Ph 649 3-C1 3-F-5-morpholino-Ph 649 3-C1 3-F-5-morpholino-Ph 649 3-C1 3-F-5-morpholino-Ph 650 3-C1 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 651 3-C1 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 652 3-C1 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 653 3-C1 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 654 3-C1 3-CNH2-5-(1-Me-5-tetrazolyl)-Ph 655 3-C1 2-maphthyl 666 3-C1 3-furanyl 667 3-C1 3-furanyl 668 3-C1 3-furanyl 669 3-C1 3-furanyl 660 3-C1 3-furanyl 661 3-C1 2-pyridyl 663 3-C1 3-pyridyl 664 3-C1 3-pyridyl 665 3-C1 2-indolyl 665 3-C1 3-indolyl	619	3-C1	2-tBu-Ph
622 3-C1 2-(1-pyrrolidinyl)-Ph 623 3-C1 2-(2-imidazolyl)-Ph 624 3-C1 2-(1-imidazolyl)-Ph 625 3-C1 2-(2-thiazolyl)-Ph 626 3-C1 2-(3-pyrazolyl)-Ph 627 3-C1 2-(1-pyrazolyl)-Ph 628 3-C1 2-(5-Me-1-tetrazolyl)-Ph 629 3-C1 2-(1-Me-5-tetrazolyl)-Ph 630 3-C1 2-(2-pyridyl)-Ph 631 3-C1 2-(2-thienyl)-Ph 632 3-C1 2-(2-thienyl)-Ph 633 3-C1 2-(2-thienyl)-Ph 634 3-C1 2,4-dif-Ph 635 3-C1 2,5-dif-Ph 636 3-C1 2,5-dif-Ph 637 3-C1 3,5-dif-Ph 638 3-C1 3,5-dif-Ph 639 3-C1 3,5-dif-Ph 640 3-C1 3,5-dif-Ph 640 3-C1 3,4-diC1-Ph 641 3-C1 3,4-diC1-Ph 642 3-C1 3,4-diC1-Ph 643 3-C1 3,5-diC1-Ph 644 3-C1 3,4-diC73-Ph 645 3-C1 3,5-diC73-Ph 646 3-C1 3,5-diC73-Ph 647 3-C1 3,5-diC73-Ph 648 3-C1 3,5-diC73-Ph 649 3-C1 3-F5-morpholino-Ph 649 3-C1 3-F5-morpholino-Ph 649 3-C1 3-F5-morpholino-Ph 650 3-C1 2-MeO-Ph 651 3-C1 2-MeO-Ph 652 3-C1 2-MeO-S-(1-Me-5-tetrazolyl)-Ph 653 3-C1 2-MeO-S-(1-Me-5-tetrazolyl)-Ph 654 3-C1 3-CNH2-S-(1-Me-5-tetrazolyl)-Ph 655 3-C1 2-meO-S-(1-Me-5-tetrazolyl)-Ph 656 3-C1 2-maphthyl 657 3-C1 2-maphthyl 658 3-C1 3-cnh2-S-(1-Me-5-tetrazolyl)-Ph 659 3-C1 2-maphthyl 650 3-C1 3-furanyl 661 3-C1 3-pyridyl 663 3-C1 3-pyridyl 664 3-C1 3-pyridyl 665 3-C1 2-indolyl 665 3-C1 2-indolyl 665 3-C1 2-indolyl	620	3-C1	2-CH2CO2Me-Ph
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666 3-Cl 5-indolyl			
	666	3-C1	5-indolyl

667	3-C1	6-indolyl
668	3-C1	3-indazolyl
669	3-C1	5-indazolyl
670	3-C1	6-indazolyl
671	3-C1	
	3-C1	2-imidazolyl
672	3-C1	3-isoxazoyl
673		3-pyrazolyl
674	3-C1	2-thiadiazolyl
675	3-C1	2-thiazolyl
676	3-C1	5-Ac-4-Me-2-thiazolyl
677	3-C1	5-tetrazolyl
678	3-C1	2-benzimidazolyl
679	3-C1	5-benzimidazolyl
680	3-C1	2-benzothiazolyl
681	3-C1	5-benzothiazolyl
682	3-C1	2-benzoxazolyl
683	3-C1	5-benzoxazolyl
684	3-C1	1-adamantyl
685	3-C1	2-adamantyl
686	3-C1	i-Pr
687	3-C1	t-Bu
688	3-C1	c~Hex
689	3-C1	CH2CH2OMe
690	3-C1	CH2CONH2
691	3-C1	CH2CO2Me
692	3-C1	CH(CH2Ph)CO2Me
693	3-C1	CH2CH2NMe2
694	3-C1	benzyl
695	3-C1	phenethyl
696	3-C1	2-(morpholin-1-yl)-Et
697	4-Cl	Ph
698	4-Cl	3-CN-Ph
699	4-Cl	3-COMe-Ph
700	4-C1	3-CO2Me-Ph
701	4-C1	3-CONH2-Ph
702	4-C1	3-CONHMe-Ph
703	4-Cl	3-F-Ph
704	4-C1	3-Cl-Ph
705	4-C1	3-Br-Ph
706	4-C1	3-SO2NH2-Ph
707	4-C1	3-SO2NHMe-Ph
708	4-C1	3-CF3-Ph
709	4-Cl	3-OMe-Ph
710	4-C1	3-SMe-Ph
711	4-C1	3-SOMe-Ph
712	4-C1	3-SO2Me-Ph
713	4-C1	3-OH-Ph
714	4-C1	3-CH2OH-Ph
715	4-C1	3-CHOHMe-Ph
716	4-C1	3-COH (Me) 2-Ph
717	4-C1	3-Me-Ph
1 - 1	4-CT	3-Me-lii

718	4-C1	2 Et D
		3-Et-Ph
719	4-C1	3-iPr-Ph
720	4-C1	3-tBu-Ph
721	4-C1	3-CH2CO2Me-Ph
722	4-C1	3-(1-piperidinyl)-Ph
723	4-C1	3-(1-pyrrolidiny1)-Ph
724	4-C1	3-(2-imidazolyl)-Ph
725	4-C1	3-(1-imidazolyl)-Ph
726	4-C1	3-(2-thiazoly1)-Ph
727	4-Cl	3-(3-pyrazoly1)-Ph
728	4-C1	3-(1-pyrazolyl)-Ph
729	4-C1	3-(5-Me-1-tetrazolyl)-Ph
730	4-Cl	3-(1-Me-5-tetrazolyl)-Ph
731	4-Cl	3-(2-pyridyl)-Ph
732	4-Cl	3-(2-thienyl)-Ph
733	4-Cl	3-(2-furanyl)-Ph
734	4-C1	4-CN-Ph
735	4-Cl	4-COMe-Ph
736	4-Cl	4-CO2Me-Ph
737	4-Cl	4-CONH2-Ph
738	4-Cl	4-CONHMe-Ph
739	4-C1	4-CONHPh-Ph
740	4-Cl	4-F-Ph
741	4-C1	4-Cl-Ph
742	4-C1	4-Br-Ph
743	4-C1	4-SO2NH2-Ph
744	4-C1	4-SO2NHMe-Ph
745	4-C1	4-CF3-Ph
746	4-C1	4-OMe-Ph
747	4-C1	4-SMe-Ph
748	4-Cl	4-SOMe-Ph
749	4-C1	4-SO2Me-Ph
750	4-C1	4-OH-Ph
751	4-C1	4-CH2OH-Ph
752	4-C1	4-CHOHMe-Ph
753	4-C1	4-COH (Me) 2-Ph
754	4-C1	4-Me-Ph
755	4-C1	4-Et-Ph
756	4-C1	4-iPr-Ph
757	4-C1	4-tBu-Ph
758	4-C1	4-CH2CO2Me-Ph
759	4-C1	4-CH2COZME-Ph 4-(1-piperidinyl)-Ph
760		
761	4-Cl 4-Cl	4-(1-pyrrolidinyl)-Ph
		4-(2-imidazolyl)-Ph
762	4-C1	4-(1-imidazolyl)-Ph
763	4-C1	4-(2-thiazolyl)-Ph
764	4-C1	4-(3-pyrazolyl)-Ph
765	4-C1	4-(1-pyrazolyl)-Ph
766	4-C1	4-(5-Me-1-tetrazolyl)-Ph
767	4-C1	4-(1-Me-5-tetrazolyl)-Ph
768	4-C1	4-(2-pyridyl)-Ph

769	4-C1	4-(2-thienyl)-Ph
770	4-C1	
771		4-(2-furany1)-Ph
772	4-C1	2-CN-Ph
	4-C1	2-COMe-Ph
773	4-C1	2-CO2Me-Ph
774	4-C1	2-CONH2-Ph
775	4-C1	2-CONHMe-Ph
776	4-C1	2-F-Ph
777	4-C1	2-Cl-Ph
778	4-Cl	2-Br-Ph
779	4-C1	2-SO2NH2-Ph
780	4-C1	2-SO2NHMe-Ph
781	4-Cl	2-CF3-Ph
782	4-C1	2-OMe-Ph
783	4-C1	2-SMe-Ph
784	4-C1	2-SOMe-Ph
785	4-C1	2-SO2Me-Ph
786	4-Cl	2-OH-Ph
787	4-C1	2-CH2OH-Ph
788	4-Cl	2-CHOHMe-Ph
789	4-Cl	2-COH(Me)2-Ph
790	4-C1	2-Me-Ph
791	4-C1	2-Et-Ph
792	4-Cl	2-iPr-Ph
793	4-Cl	2-tBu-Ph
794	4-C1	2-CH2CO2Me-Ph
795	4-C1	2-(1-piperidinyl)-Ph
796	4-C1	2-(1-pyrrolidinyl)-Ph
797	4-C1	2-(2-imidazolyl)-Ph
798	4-C1	2-(1-imidazolyl)-Ph
799	4-C1	2-(2-thiazolyl)-Ph
800	.4-C1	2-(3-pyrazolyl)-Ph
801	4-C1	2-(1-pyrazolyl)-Ph
802	4-C1	2-(5-Me-1-tetrazolyl)-Ph
803	4-Cl	2-(1-Me-5-tetrazolyl)-Ph
804	4-C1	2-(2-pyridy1)-Ph
805	4-C1	2-(2-thienyl)-Ph
806	4-Cl	2-(2-furany1)-Ph
807	4-C1	2,4-diF-Ph
808	4-C1	2,5-diF-Ph
809	4-C1	2,6-diF-Ph
810	4-C1	3,4-diF-Ph
811	4-C1	3,5-diF-Ph
812	4-C1	2,4-diCl-Ph
813	4-C1	2,5-diCl-Ph
814	4-C1	2,6-diCl-Ph
815	4-C1	3,4-diCl-Ph
816	4-C1	3,5-diCl-Ph
817	4-C1	3,4-diCF3-Ph
818	4-C1	3,5-diCF3-Ph
819	4-C1	5-C1-2-MeO-Ph
013	#-CT	J-CI-Z-MEO-FII

820	4-C1	5-Cl-2-Me-Ph
821	4-C1	2-F-5-Me-Ph
822	4-C1	3-F-5-morpholino-Ph
823	4-C1	3,4-OCH2O-Ph
824	4-C1	3,4-0CH2CH2O-Ph
825	4-C1	2-MeO-5-CONH2-Ph
826		2-MeO-4-(1-Me-5-tetrazoly1)-Ph
827	4-C1 4-C1	
	4-C1	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
828	4-C1	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
829		1-naphthyl
830	4-Cl	2-naphthyl
831	4-C1	2-thienyl
832	4-C1	3-thienyl
833	4-C1	2-furanyl
834	4-C1	3-furanyl
835	4-C1	2-pyridyl
836	4-Cl	3-pyridyl
837	4-C1	4-pyridyl
838	4-C1	2-indolyl
839	4-C1	3-indolyl
840	4-C1	5-indolyl
841	4-C1	6-indolyl
842	4-C1	3-indazolyl
843	4-C1	5-indazolyl
844	4-C1	6-indazolyl
845	4-C1	2-imidazolyl
846	4-C1	3-isoxazoyl
847	4-C1	3-pyrazolyl
848	4-C1	2-thiadiazolyl
849	4-Cl	2-thiazolyl
850	4-Cl	5-Ac-4-Me-2-thiazolyl
851	4-C1	5-tetrazolyl
852	4-C1	2-benzimidazolyl
853	4-Cl	5-benzimidazolyl
854	4-C1	2-benzothiazolyl
855	4-C1	5-benzothiazolyl
856	4-C1	2-benzoxazolyl
857	4-C1	5-benzoxazolyl
858	4-C1	1-adamantyl
859	4-C1	2-adamantyl
860	4-C1	i-Pr
861	4-C1	t-Bu
862	4-C1	c-Hex
863	4-C1	CH2CH2OMe
864	4-Cl	CH2CONH2
865	4-C1	CH2CO2Me
866	4-C1	CH(CH2Ph)CO2Me
867	4-C1	CH2CH2NMe2
868	4-C1	benzyl
869	4-C1	phenethyl
870	4-C1	2-(morpholin-1-yl)-Et

Table 4

5

Entry	R16	R9d	R3
1	2-F	H	Ph
2	2-F	H	3-CN-Ph
3	2-F	H	3-COMe-Ph
4	2-F		
5	2-F 2-F	H	3-CO2Me-Ph
6		H	3-CONH2-Ph
7	2-F	H	3-CONHMe-Ph
	2-F	H	3-F-Ph
8	2-F	H	3-C1-Ph
9	2-F	H	3-Br-Ph
10	2-F	H	3-SO2NH2-Ph
11	2-F	H	3-SO2NHMe-Ph
12	2-F	H	3-CF3-Ph
13	2-F	H	3-OMe-Ph
14	2-F	H	3-SMe-Ph
15	2-F	H	3-SOMe-Ph
16	2-F	Н	3-SO2Me-Ph
17	2-F	H	3-OH-Ph
18	2-F	H	3-CH2OH-Ph
19	2-F	H	3-CHOHMe-Ph
20	2-F	H	3-COH (Me) 2-Ph
21	2-F	H	3-Me-Ph
22	2-F	H	3-Et-Ph
23	2-F	H	3-iPr-Ph
24	2-F	H	3-tBu-Ph
25	2-F	Н	3-CH2CO2Me-Ph
26	2-F	H	3-(1-piperidinyl)-Ph
27	2-F	H	3-(1-pyrrolidinyl)-Ph
28	2-F	Н	3-(2-imidazolyl)-Ph
29	2-F	H	3-(1-imidazolyl)-Ph
30	2-F	H	3-(2-thiazolyl)-Ph
31	2-F	H	3-(3-pyrazolyl)-Ph
32	2-F	H	3-(1-pyrazolyl)-Ph
33	2-F	H	3-(5-Me-1-tetrazolyl)-Ph
34	2-F	Н	3-(1-Me-5-tetrazoly1)-Ph
35	2-F	H	3-(2-pyridyl)-Ph
36	2-F	Н	3-(2-thieny1)-Ph
37	2-F	Н	3-(2-furanyl)-Ph
38	2-F	Н	4-CN-Ph
39	2-F	H	4-COMe-Ph
40	2-F	H	4-CO2Me-Ph
41	2-F	H	4-CONH2-Ph
42	2-F	H	4-CONHMe-Ph
43	2-F	H	4-CONHPh-Ph
44	2-F	H	4-F-Ph
45	2-F	H	4-C1-Ph
46	$\frac{2-F}{2-F}$	H	4-C1-FH 4-Br-Ph
47	2-F	H	4-SC2NH2-Ph
48	2-F	H	4-SO2NH2-Ph
49	2-F		
		H	4-CF3-Ph
50	2-F	H	4-OMe-Ph

51	2-F	Н	4-SMe-Ph
52	2-F	H	
53	2-F	H	4-SOMe-Ph
54	2-F 2-F	H	4-SO2Me-Ph
55	2-F		4-OH-Ph
		H	4-CH2OH-Ph
56	2-F	H	4-CHOHMe-Ph
57	2-F	H	4-COH (Me) 2-Ph
58	2-F	H	4-Me-Ph
59	2-F	H	4-Et-Ph
60	2-F	H	4-iPr-Ph
61	2-F	H	4-tBu-Ph
62	2-F	H	4-CH2CO2Me-Ph
63	2-F	H	4-(1-piperidinyl)-Ph
64	2-F	H	4-(1-pyrrolidinyl)-Ph
65	2-F	Н	4-(2-imidazolyl)-Ph
66	2-F	H	4-(1-imidazolyl)-Ph
67	2-F	H	4-(2-thiazolyl)-Ph
68	2-F	H	4-(3-pyrazolyl)-Ph
69	2-F	H	4-(1-pyrazolyl)-Ph
70	2-F	H	4-(5-Me-1-tetrazolyl)-Ph
71	2-F	H	4-(1-Me-5-tetrazoly1)-Ph
72	2-F	H	4-(2-pyridy1)-Ph
73	2-F	H	4-(2-thieny1)-Ph
74	2-F	H	4-(2-furanyl)-Ph
75	2-F	H	2-CN-Ph
76	2-F	H	2-COMe-Ph
77	2-F	<u>H</u>	2-CO2Me-Ph
78 79	2-F	H	2-CONH2-Ph
80	2-F 2-F	H	2-CONHMe-Ph
		H	2-F-Ph
81	2-F 2-F	H	2-C1-Ph
83	2-F 2-F	. H	2-Br-Ph
84		<u> </u>	2-S02NH2-Ph
85	2-F	H	2-SO2NHMe-Ph
86	2-F	<u> </u>	2-CF3-Ph
87	2-F 2-F	<u>H</u>	2-OMe-Ph 2-SMe-Ph
88	2-F	<u>н</u>	
89	2-F		2-SOMe-Ph
90	2-F 2-F	<u>н</u> Н	2-SO2Me-Ph
91	2-F		2-OH-Ph 2-CH2OH-Ph
92	2-F	H	2-CH2OH-Ph 2-CHOHMe-Ph
93	2-F	H	
94	2-F	H H	2-COH (Me) 2-Ph
95	2-F		2-Me-Ph
96	2-F	H	2-Et-Ph
97	2-F	H	2-iPr-Ph 2-tBu-Ph
	2-F	H	
98 99	2-F	H	2-CH2CO2Me-Ph
		<u>H</u>	2-(1-piperidinyl)-Ph
100	2-F 2-F	H	2-(1-pyrrolidinyl)-Ph
101	Z-F	H	2-(2-imidazolyl)-Ph

102	2-F	H	2-(1-imidazolyl)-Ph
103	2-F	H	2-(2-thiazolyl)-Ph
104	2-F	H	2-(3-pyrazolyl)-Ph
105	2-F	H	2-(1-pyrazolyl)-Ph
106	2-F	H	2-(5-Me-1-tetrazoly1)-Ph
107	2-F	H	2-(1-Me-5-tetrazolyl)-Ph
108	2-F	H	2-(2-pyridyl)-Ph
109	2-F	Н	2-(2-thienyl)-Ph
110	2-F	H	2-(2-furanyl)-Ph
111	2-F	H	2,4-diF-Ph
112	2-F	H	2,5-diF-Ph
113	2-F	H	2,6-diF-Ph
114	2-F 2-F	H	3,4-diF-Ph
115	2-F	Н	3,5-diF-Ph
116	2-F	H	2,4-diCl-Ph
117	2-F	H	2,5-diCl-Ph
118	2-F	H	2,6-diCl-Ph
119	2-F	Н	3,4-diCl-Ph
120	2-F	Н	3,5-diCl-Ph
121	2-F	H	3,4-diCF3-Ph
122	2-F	H	3,5-diCF3-Ph
123	2-F	H	5-C1-2-MeO-Ph
124	2-F	Н	5-Cl-2-Me-Ph
125	2-F	H	2-F-5-Me-Ph
126	2-F	Н	3-F-5-morpholino-Ph
127	2-F	H	3,4-OCH2O-Ph
128	2-F	H	3,4-OCH2CH2O-Ph
129	2-F	Н	2-MeO-5-CONH2-Ph
130	2-F	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
131	2-F	H	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
132	2-F	H	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
133	2-F	H	1-naphthyl
134	2-F	H	2-naphthyl
135	2-F	H	2-thienyl
136_	2-F	H	3-thienyl
137	2-F	H	2-furanyl
138	2-F	H	3-furanyl
139	2-F	H	2-pyridyl
140	2-F	Н	3-pyridyl
141	2-F	Н	4-pyridyl
142	2-F	H	2-indolyl
143	2-F	Н	3-indolyl
144	2-F	Н	5-indolyl
145	2-F	H	6-indolyl
146	2-F	Н	3-indazolyl
147	2-F	H	5-indazolyl
148	2-F	Н	6-indazolyl
149	2-F	H	2-imidazolyl
150	2-F	H	3-isoxazoyl
151	2-F	H	3-pyrazolyl
152	2-F	H	2-thiadiazolyl

153	1 0 B	T. T.	2 +1-111
153	2-F	H	2-thiazolyl
154	2-F	H	5-Ac-4-Me-2-thiazolyl
155	2-F	H	5-tetrazolyl
156	2-F	H	2-benzimidazolyl
157	2-F	H	5-benzimidazolyl
158	2-F	H	2-benzothiazolyl
159	2-F	H	5-benzothiazolyl
160	2-F	H	2-benzoxazolyl
161	2-F	H	5-benzoxazolyl
162	2-F	H	1-adamantyl
163	2-F	H	2-adamantyl
164	2-F	H	i-Pr
165	2-F	H	t-Bu
166	2-F	H	c-Hex
167	2-F	H	CH2CH2OMe
168	2-F	H	CH2CONH2
169	2-F	H	CH2CO2Me
170	2-F	Н	CH(CH2Ph)CO2Me
171	2-F	Н	CH2CH2NMe2
172	2-F	H	benzyl
173	2-F	Н	phenethyl
174	2-F	Н	2-(morpholin-1-yl)-Et
175	3-F	Н	Ph
176	3-F	H	3-CN-Ph
177	3-F	H	3-COMe-Ph
178	3-F	H	3-CO2Me-Ph
179	3-F	H	3-CONH2-Ph
180	3-F	H	3-CONHMe-Ph
181	3-F	H	3-F-Ph
182	3-F	H	3-C1-Ph
183	3-F	H	3-Br-Ph
184	3-F	H	3-SO2NH2-Ph
185	3-F	H	3-SO2NHMe-Ph
186	3-F	H	3-CF3-Ph
187	3-F	H	3-OMe-Ph
188	3-F	H	3-SMe-Ph
189	3-F	H	3-SOMe-Ph
190	3-F	H	3-SO2Me-Ph
191	3-F	H	3-OH-Ph
192	3-F	Н	3-CH2OH-Ph
193	3-F	H	3-CHOHMe-Ph
194	3-F	Н	3-COH(Me)2-Ph
195	3-F	Н	3-Me-Ph
196	3-F	H	3-Et-Ph
197	3-F	H	3-iPr-Ph
198	3-F	H	3-tBu-Ph
199	3-F	H	3-CH2CO2Me-Ph
200	3-F	H	3-(1-piperidinyl)-Ph
201	3-F	H	3-(1-pyrrolidinyl)-Ph
202	3-F	H	3-(2-imidazolyl)-Ph
202	3-F	H	3-(2-imidazoly1)-Ph 3-(1-imidazoly1)-Ph
203	_ <u> </u>	п	2-(T-TIIITGGZOTÄT)-BII

204	2 13	17	2 /2 +1-11-1 71-
	3-F	H	3-(2-thiazoly1)-Ph
205	3-F	H	3-(3-pyrazolyl)-Ph
206	3-F	H	3-(1-pyrazolyl)-Ph
207	3-F	H	3-(5-Me-1-tetrazolyl)-Ph
208	3-F	H	3-(1-Me-5-tetrazolyl)-Ph
209	3-F	H	3-(2-pyridyl)-Ph
210	3-F	H	3-(2-thienyl)-Ph
211	3-F	H	3-(2-furanyl)-Ph
212	3-F	H	4-CN-Ph
213	3-F	H	4-COMe-Ph
214	3-F	H	4-CO2Me-Ph
215	3-F	H	4-CONH2-Ph
216	3-F	H	4-CONHMe-Ph
217	3-F	H	4-CONHPh-Ph
218	3-F	H	4-F-Ph
219	3-F	H	4-Cl-Ph
220	3-F	H	4-Br-Ph
221	3-F	H	4-SO2NH2-Ph
222	3-F	H	4-SO2NHMe-Ph
223	3-F	H	4-CF3-Ph
224	3-F	H	4-OMe-Ph
225	3-F	H	4-SMe-Ph
226	3-F	H ·	4-SOMe-Ph
227	3-F	H	4-SO2Me-Ph
228	3-F	Н	4-OH-Ph
229	3-F	H	4-CH2OH-Ph
230	3-F	H	4-CHOHMe-Ph
231	3-F	H	4-COH(Me)2-Ph
232	3-F	H	4-Me-Ph
233	3-F	H	4-Et-Ph
234	3-F	H	4-iPr-Ph
235	3-F	H	4-tBu-Ph
236	3-F	H	4-CH2CO2Me-Ph
237	3-F	H	4-(1-piperidinyl)-Ph
238	3-F	H	4-(1-pyrrolidinyl)-Ph
239.	3-F	Н	4-(2-imidazolyl)-Ph
240	3-F	Н	4-(1-imidazolyl)-Ph
241	3-F	Н	4-(2-thiazolyl)-Ph
242	3-F	Н	4-(3-pyrazolyl)-Ph
243	3-F	H	4-(1-pyrazolyl)-Ph
244	3-F	Н	4-(5-Me-1-tetrazolyl)-Ph
245	3-F	Н	4-(1-Me-5-tetrazoly1)-Ph
246	3-F	H	4-(2-pyridy1)-Ph
247	3-F	H	4-(2-thienyl)-Ph
248	3-F	H	4-(2-furany1)-Ph
249	3-F	H	2-CN-Ph
250	3-F	H	2-COMe-Ph
251	3-F	H	2-CO2Me-Ph
252	3-F	H	2-CONH2-Ph
253	3-F	H	2-CONHMe-Ph
254	3-F	H	2-F-Ph
274		**	2-1-FII

255	3-F	н	2-C1-Ph
256	3-F	H	2-CI-FH 2-Br-Ph
257	3-F	H	2-SI-FII 2-SO2NH2-Ph
258	3-F	H	2-SO2NH2-Ph 2-SO2NHMe-Ph
259	3-F	H	
			2-CF3-Ph
260	3-F	H	2-OMe-Ph
261	3-F	H	2-SMe-Ph
262	3-F	H	2-SOMe-Ph
263	3-F	H	2-S02Me-Ph
264	3-F	H	2-OH-Ph
265	3-F	H	2-CH2OH-Ph
266	3-F	H	2-CHOHMe-Ph
267	3-F	H	2-COH (Me) 2-Ph
268	3-F	H	2-Me-Ph
269	3-F	H	2-Et-Ph
270	3-F	H	2-iPr-Ph
271	3-F	H	2-tBu-Ph
272	3-F	H	2-CH2CO2Me-Ph
273	3-F	H	2-(1-piperidinyl)-Ph
274	3-F	H	2-(1-pyrrolidinyl)-Ph
275	3-F	H	2-(2-imidazolyl)-Ph
276	3-F	H	2-(1-imidazolyl)-Ph
277	3-F	H	2-(2-thiazolyl)-Ph
278	3-F	H	2-(3-pyrazolyl)-Ph
279	3-F	H	2-(1-pyrazolyl)-Ph
280	3-F	H	2-(5-Me-1-tetrazolyl)-Ph
281	3-F	H	2-(1-Me-5-tetrazolyl)-Ph
282	3-F	H	2-(2-pyridyl)-Ph
283	3-F	H	2-(2-thienyl)-Ph
284	3-F	H	2-(2-furany1)-Ph
285	3-F	H	2,4-diF-Ph
286	3-F	H	2,5-diF-Ph
287	3-F	H	2,6-diF-Ph
288	3-F	H	3,4-diF-Ph
289	3-F	H	3,5-diF-Ph
290	3-F	H	2,4-diCl-Ph
291	3-F	H	2,5-diCl-Ph
292	3-F	H	2,6-diCl-Ph
293	3-F	<u>H</u>	3,4-diCl-Ph
294	3-F	H	3,5-diCl-Ph
295	3-F	H	3,4-diCF3-Ph
296	3-F	H	3,5-diCF3-Ph
297	3-F	H	5-Cl-2-MeO-Ph
298	3-F	H	5-C1-2-Me-Ph
299	3-F	H	2-F-5-Me-Ph
300	3-F	H	3-F-5-morpholino-Ph
301	3-F	H	3,4-OCH2O-Ph
302	3-F	H	3,4-OCH2CH2O-Ph
303	3-F	H	2-MeO-5-CONH2-Ph
304	3-F	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
305	3-F	Н	2-MeO-5-(1-Me-5-tetrazolyl)-Ph

306	3-F	Н	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
307	3-F	Н	1-naphthyl
308	3-F	H	2-naphthyl
309	3-F	H	2-thienyl
310	3-F	Н	3-thienyl
311	3-F	H	2-furanyl
312	3-F	H	3-furanyl
313	3-F	H	2-pyridyl
314	3-F	H	3-pyridyl
315	3-F	H	4-pyridyl
316	3-F	H	2-indoly1
317	3-F	H	3-indolyl
318	3-F	H	5-indolyl
319	3-F	H	6-indolyl
320	3-F	H	3-indazolyl
321	3-F	H	5-indazolyl
322	3-F	H	6-indazolyl
323	3-F	H	2-imidazolyl
324	3-F	H	3-isoxazoyl
325	3-F	H	3-pyrazolyl
326	3-F	H	2-thiadiazolyl
327	3-F	H	2-thiazolyl
328	3-F	H	5-Ac-4-Me-2-thiazolyl
329	3-F	H	5-tetrazolyl
330	3-F	H	2-benzimidazolyl
331	3-F	H	5-benzimidazolyl
332	3-F	H	2-benzothiazolyl
333	3-F	H	5-benzothiazolyl
334	3-F	H	2-benzoxazolyl
335	3-F	H	5-benzoxazolyl
336	3-F	H	1-adamantyl
337	3-F	H	2-adamantyl
338	3-F	H	i-Pr
339	3-F	H	t-Bu
340	3-F	H	c-Hex
341	3-F	<u>н</u>	CH2CH2OMe
342	3-F	H	CH2CONH2
343	3-F	H	CH2CO2Me
344	3-F	H	CH (CH2Ph) CO2Me
345	3-F	H	CH2CH2NMe2
346	3-F	<u> </u>	benzyl
347	3-F	H	phenethyl
348	3-F	H	2-(morpholin-1-yl)-Et
349	4-F	H	Ph
350	4-F	H	3-CN-Ph
351	4-F	H	3-CN-Ph 3-COMe-Ph
352	4-F		3-COME-Ph
353	4-F	H	
354		H	3-CONHIA-Ph
355	4-F	H	3-CONHMe-Ph 3-F-Ph
	4-F	H	
356	4-F	H	3-Cl-Ph

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359 4-F H 3-SO2NHMe-Ph 360 4-F H 3-CF3-Ph 361 4-F H 3-CF3-Ph 362 4-F H 3-SMe-Ph 363 4-F H 3-SMe-Ph 363 4-F H 3-SOME-Ph 364 4-F H 3-SO2ME-Ph 365 4-F H 3-SO2ME-Ph 366 4-F H 3-CH2OH-Ph 367 4-F H 3-CH0HMe-Ph 368 4-F H 3-CH0HMe-Ph 369 4-F H 3-Me-Ph 370 4-F H 3-Et-Ph 371 4-F H 3-Et-Ph 371 4-F H 3-CH2O2ME-Ph 373 4-F H 3-CH2O2ME-Ph 374 4-F H 3-(1-pyrrolidinyl)-Ph 375 4-F H 3-(1-pyrrolidinyl)-Ph 376 4-F H 3-(2-imidazolyl)-Ph 377 4-F H 3-(1-pyrzolidinyl)-Ph 378 4-F H 3-(1-pyrzolidinyl)-Ph 379 4-F H 3-(1-pyrzolyl)-Ph 380 4-F H 3-(1-pyrzolyl)-Ph 381 4-F H 3-(2-thiazolyl)-Ph 382 4-F H 3-(2-thiazolyl)-Ph 383 4-F H 3-(2-thiazolyl)-Ph 384 4-F H 3-(2-thiazolyl)-Ph 385 4-F H 3-(2-thiazolyl)-Ph 386 4-F H 3-(2-thiazolyl)-Ph 387 4-F H 3-(2-thiazolyl)-Ph 388 4-F H 3-(2-thiazolyl)-Ph 389 4-F H 3-(2-thiazolyl)-Ph 380 4-F H 3-(2-thiazolyl)-Ph 381 4-F H 3-(2-thiazolyl)-Ph 382 4-F H 3-(2-thiazolyl)-Ph 383 4-F H 3-(2-thiazolyl)-Ph 384 4-F H 3-(2-thiazolyl)-Ph 385 4-F H 3-(2-thiazolyl)-Ph 386 4-F H 3-(2-thiazolyl)-Ph 387 4-F H 3-(2-thiazolyl)-Ph 389 4-F H 4-COM-Ph 390 4-F H 4-COM-Ph 391 4-F H 4-COM-Ph 392 4-F H 4-COM-Ph 393 4-F H 4-CON-Ph 394 4-F H 4-CON-Ph 395 4-F H 4-CON-Ph 396 4-F H 4-CON-Ph 397 4-F H 4-CON-Ph 398 4-F H 4-CON-Ph 398 4-F H 4-CON-Ph 398 4-F H 4-CON-Ph
360 4-F H 3-CF3-Ph 361 4-F H 3-OMe-Ph 362 4-F H 3-SMe-Ph 363 4-F H 3-SOME-Ph 364 4-F H 3-SOME-Ph 365 4-F H 3-SOME-Ph 366 4-F H 3-CH2OH-Ph 367 4-F H 3-CH2OH-Ph 368 4-F H 3-CH0HME-Ph 368 4-F H 3-CH0HME-Ph 369 4-F H 3-Me-Ph 370 4-F H 3-Me-Ph 371 4-F H 3-EL-Ph 372 4-F H 3-CH2OME-Ph 373 4-F H 3-CH2OME-Ph 373 4-F H 3-CH2OME-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(1-imidazolyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-imidazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(3-pyrazolyl)-Ph 381 4-F H 3-(3-pyrazolyl)-Ph 382 4-F H 3-(3-pyrazolyl)-Ph 383 4-F H 3-(2-thiazolyl)-Ph 384 4-F H 3-(2-thiazolyl)-Ph 385 4-F H 3-(2-thiazolyl)-Ph 386 4-F H 3-(2-thiazolyl)-Ph 387 4-F H 3-(2-thiazolyl)-Ph 388 4-F H 3-(2-thiazolyl)-Ph 389 4-F H 3-(2-thiazolyl)-Ph 380 4-F H 3-(2-thiazolyl)-Ph 381 4-F H 3-(2-thiazolyl)-Ph 382 4-F H 3-(2-thiazolyl)-Ph 383 4-F H 3-(2-thiazolyl)-Ph 384 4-F H 3-(2-thiazolyl)-Ph 385 4-F H 3-(2-thiazolyl)-Ph 386 4-F H 3-(2-thiazolyl)-Ph 387 4-F H 3-(2-thiazolyl)-Ph 389 4-F H 4-COME-Ph 390 4-F H 4-COME-Ph 391 4-F H 4-COMHP-Ph 392 4-F H 4-CONHME-Ph 393 4-F H 4-CONHME-Ph 394 4-F H 4-CONHME-Ph 395 4-F H 4-SOZNHME-Ph 397 4-F H 4-SOZNHME-Ph 398 4-F H 4-COSE-Ph 398 4-F H 4-COSE-Ph 399 4-F H 4-COSE-Ph 399 4-F H 4-CONHME-Ph 399 4-F H 4-CONHME-Ph 399 4-F H 4-CONHME-Ph 390 4-F H 4-CONHME-Ph 391 4-F H 4-CONHME-Ph 392 4-F H 4-CONHME-Ph 393 4-F H 4-CONHME-Ph 394 4-F H 4-CONHME-Ph 395 4-F H 4-CONHME-Ph 396 4-F H 4-CONHME-Ph 397 4-F H 4-CONHME-Ph 398 4-F H 4-CONHME-Ph
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362 4-F H 3-SMe-Ph 363 4-F H 3-SOMe-Ph 364 4-F H 3-SOMe-Ph 365 4-F H 3-SOMe-Ph 366 4-F H 3-GNE-Ph 367 4-F H 3-GHOHME-Ph 368 4-F H 3-CHOHME-Ph 369 4-F H 3-CHOHME-Ph 370 4-F H 3-EL-Ph 371 4-F H 3-EL-Ph 371 4-F H 3-EL-Ph 372 4-F H 3-CH2COME-Ph 373 4-F H 3-(1-piperidinyl)-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-midazolyl)-Ph 376 4-F H 3-(1-midazolyl)-Ph 377 4-F H 3-(1-midazolyl)-Ph 378 4-F H 3-(3-pyrazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(3-pyrazolyl)-Ph 381 4-F H 3-(3-pyrazolyl)-Ph 382 4-F H 3-(2-thianyl)-Ph 383 4-F H 3-(2-thianyl)-Ph 384 4-F H 3-(2-thianyl)-Ph 385 4-F H 3-(2-thianyl)-Ph 386 4-F H 3-(2-thianyl)-Ph 387 4-F H 3-(2-thianyl)-Ph 388 4-F H 3-(2-thianyl)-Ph 389 4-F H 4-COME-Ph 390 4-F H 4-COME-Ph 391 4-F H 4-COME-Ph 392 4-F H 4-COMHME-Ph 393 4-F H 4-CONHME-Ph 394 4-F H 4-CONHME-Ph 395 4-F H 4-SOZNHME-Ph 396 4-F H 4-SOZNHME-Ph 397 4-F H 4-COME-Ph 397 4-F H 4-COME-Ph
362 4-F H 3-SMe-Ph 363 4-F H 3-SOME-Ph 364 4-F H 3-SOZME-Ph 365 4-F H 3-OH-Ph 366 4-F H 3-CHOHP-Ph 367 4-F H 3-CHOHME-Ph 368 4-F H 3-CHOHME-Ph 369 4-F H 3-EPh 370 4-F H 3-EPh 371 4-F H 3-EPh 371 4-F H 3-EPh 372 4-F H 3-EPh 373 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(1-piperidinyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(3-pyrazolyl)-Ph 381 4-F H 3-(1-me-5-tetrazolyl)-Ph 382 4-F H 3-(1-me-1-tetrazolyl)-Ph 383 4-F H 3-(2-thienyl)-Ph 384 4-F H 3-(2-thienyl)-Ph 385 4-F H 3-(2-thienyl)-Ph 386 4-F H 3-(2-thienyl)-Ph 387 4-F H 3-(2-thienyl)-Ph 388 4-F H 3-(2-thienyl)-Ph 389 4-F H 4-COME-Ph 390 4-F H 4-COME-Ph 391 4-F H 4-COME-Ph 392 4-F H 4-COMHP-Ph 393 4-F H 4-CONHP-Ph 394 4-F H 4-CONHP-Ph 395 4-F H 4-CONHP-Ph 397 4-F H 4-CONHP-Ph 398 4-F H 4-SOZNHME-Ph 397 4-F H 4-COME-Ph 397 4-F H 4-SOZNHME-Ph 397 4-F H 4-COME-Ph 397 4-F H 4-COME-Ph 398 4-F H 4-COME-Ph
363 4-F H 3-SOMe-Ph 364 4-F H 3-SOZMe-Ph 365 4-F H 3-SOZMe-Ph 366 4-F H 3-CH2OH-Ph 367 4-F H 3-CH2OH-Ph 368 4-F H 3-CHOHME-Ph 368 4-F H 3-CHOHME-Ph 369 4-F H 3-Me-Ph 370 4-F H 3-EE-Ph 371 4-F H 3-EE-Ph 372 4-F H 3-EE-Ph 373 4-F H 3-CH2COZMe-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(1-piperidinyl)-Ph 377 4-F H 3-(1-midazolyl)-Ph 378 4-F H 3-(2-midazolyl)-Ph 379 4-F H 3-(2-thiazolyl)-Ph 380 4-F H 3-(3-pyrazolyl)-Ph 381 4-F H 3-(5-Me-1-tetrazolyl)-Ph 382 4-F H 3-(1-me-5-tetrazolyl)-Ph 383 4-F H 3-(2-thienyl)-Ph 384 4-F H 3-(2-thienyl)-Ph 385 4-F H 3-(2-thienyl)-Ph 386 4-F H 3-(2-thienyl)-Ph 387 4-F H 3-(2-thienyl)-Ph 388 4-F H 4-COME-Ph 389 4-F H 4-COME-Ph 390 4-F H 4-COME-Ph 391 4-F H 4-CONHPh-Ph 392 4-F H 4-CONHPh-Ph 393 4-F H 4-CONHPh-Ph 394 4-F H 4-SOZNHME-Ph 395 4-F H 4-SOZNHME-Ph 396 4-F H 4-SOZNHME-Ph 397 4-F H 4-SOZNHME-Ph 398 4-F H 4-COME-Ph 397 4-F H 4-SOZNHME-Ph 398 4-F H 4-COME-Ph
364 4-F H 3-SO2Me-Ph 365 4-F H 3-OH-Ph 3-OH-Ph 3-OH-Ph 366 4-F H 3-CHOMMe-Ph 3-CHOMMe-Ph 368 4-F H 3-CHOMMe-Ph 368 4-F H 3-EE-Ph 370 4-F H 3-EE-Ph 371 4-F H 3-EB-Ph 372 4-F H 3-EB-Ph 373 4-F H 3-CH2CO2Me-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(1-pimidazolyl)-Ph 377 4-F H 3-(2-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(5-Me-1-tetrazolyl)-Ph 381 4-F H 3-(5-Me-1-tetrazolyl)-Ph 382 4-F H 3-(2-thienyl)-Ph 383 4-F H 3-(2-thienyl)-Ph 384 4-F H 3-(2-thienyl)-Ph 385 4-F H 3-(2-thienyl)-Ph 386 4-F H 3-(2-thienyl)-Ph 387 4-F H 3-(2-thienyl)-Ph 388 4-F H 3-(2-thienyl)-Ph 389 4-F H 4-COMe-Ph 390 4-F H 4-COMe-Ph 391 4-F H 4-COMHPh-Ph 392 4-F H 4-COMHPh-Ph 393 4-F H 4-COMHPh-Ph 394 4-F H 4-COMHPh-Ph 395 4-F H 4-SOZNHMe-Ph 396 4-F H 4-SOZNHMe-Ph 397 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 398 4-F H
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366 4-F H 3-CH20H-Ph 367 4-F H 3-CH0HMe-Ph 368 4-F H 3-CH0HMe-Ph 368 4-F H 3-Me-Ph 3-Me-Ph 370 4-F H 3-Me-Ph 3-Et-Ph 371 4-F H 3-Et-Ph 372 4-F H 3-Et-Ph 373 4-F H 3-CH2C02Me-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(1-imidazolyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 381 4-F H 3-(1-me-5-tetrazolyl)-Ph 381 4-F H 3-(1-Me-5-tetrazolyl)-Ph 382 4-F H 3-(1-Me-5-tetrazolyl)-Ph 383 4-F H 3-(2-thienyl)-Ph 384 4-F H 3-(2-thienyl)-Ph 385 4-F H 3-(2-thienyl)-Ph 386 4-F H 3-(2-thienyl)-Ph 387 4-F H 4-CN-Ph 388 4-F H 4-COM-Ph 390 4-F H 4-COMHP-Ph 391 4-F H 4-COMHP-Ph 392 4-F H 4-COMHP-Ph 393 4-F H 4-COMHP-Ph 394 4-F H 4-COMHP-Ph 395 4-F H 4-F-Ph 396 4-F H 4-F-Ph 397 4-F H 4-SOZNH2-Ph 396 4-F H 4-SOZNH2-Ph 397 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 398 4-F H 4-COM-Ph 397 4-F H 4-COM-Ph 398 4-F H 4-COM-
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369 4-F H 3-Me-Ph 370 4-F H 3-Et-Ph 371 4-F H 3-iPr-Ph 372 4-F H 3-tBu-Ph 373 4-F H 3-tBu-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-pyrolidinyl)-Ph 376 4-F H 3-(2-imidazolyl)-Ph 377 4-F H 3-(2-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(2-pyrazolyl)-Ph 380 4-F H 3-(1-pyrazolyl)-Ph 381 4-F H 3-(5-Me-1-tetrazolyl)-Ph 382 4-F H 3-(2-pyridyl)-Ph 383 4-F H 3-(2-pyridyl)-Ph 384 4-F H 3-(2-pyridyl)-Ph 385 4-F H 3-(2-furanyl)-Ph 386 4-F H 4-CN-Ph
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373 4-F H 3-CH2CO2Me-Ph 374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-piperidinyl)-Ph 376 4-F H 3-(2-imidazolyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(1-pyrazolyl)-Ph 381 4-F H 3-(1-pyrazolyl)-Ph 382 4-F H 3-(5-Me-1-tetrazolyl)-Ph 383 4-F H 3-(2-pyridyl)-Ph 384 4-F H 3-(2-pyridyl)-Ph 385 4-F H 3-(2-thianyl)-Ph 386 4-F H 4-CN-Ph 387 4-F H 4-CN-Ph 388 4-F H 4-COMe-Ph 390 4-F H 4-CONHMe-Ph 391 4-F H 4-CONHMe-Ph 392 4-F H 4-F-Ph 393 4-F H 4-F-Ph 394 4-F H 4-SO2NHMe-Ph 395 4-F H 4-SO2NHMe-Ph 396 4-F H 4-SO2NHMe-Ph 397 4-F H 4-SO2NHMe-Ph 397 4-F H 4-COMe-Ph 397 4-F H 4-SO2NHMe-Ph 397 4-F H 4-COMe-Ph 397 4-F H 4-COMe-Ph 397 4-F H 4-CONHME-Ph 397 4-F H 4-SO2NHMe-Ph 397 4-F H 4-SO2NHMe-Ph 397 4-F H 4-COMe-Ph
374 4-F H 3-(1-piperidinyl)-Ph 375 4-F H 3-(1-pyrrolidinyl)-Ph 376 4-F H 3-(2-imidazolyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(2-pyrazolyl)-Ph 380 4-F H 3-(1-pyrazolyl)-Ph 381 4-F H 3-(1-me-5-tetrazolyl)-Ph 382 4-F H 3-(2-pyridyl)-Ph 383 4-F H 3-(2-pyridyl)-Ph 384 4-F H 3-(2-pyridyl)-Ph 385 4-F H 3-(2-pyridyl)-Ph 385 4-F H 3-(2-pyridyl)-Ph 386 4-F H 3-(2-pyridyl)-Ph 387 4-F H 3-(2-pyridyl)-Ph 386 4-F H 4-CN-Ph 387 4-F H 4-COM-Ph 388 4-F H 4-COM-Ph
375 4-F H 3-(1-pyrrolidinyl)-Ph 376 4-F H 3-(2-imidazolyl)-Ph 377 4-F H 3-(1-imidazolyl)-Ph 378 4-F H 3-(2-thiazolyl)-Ph 379 4-F H 3-(3-pyrazolyl)-Ph 380 4-F H 3-(1-pyrazolyl)-Ph 381 4-F H 3-(5-Me-1-tetrazolyl)-Ph 381 4-F H 3-(2-pyridyl)-Ph 383 4-F H 3-(2-pyridyl)-Ph 384 4-F H 3-(2-pyridyl)-Ph 385 4-F H 3-(2-thienyl)-Ph 386 4-F H 3-(2-furanyl)-Ph 387 4-F H 4-CN-Ph 388 4-F H 4-COM-Ph 389 4-F H 4-COM-Ph 390 4-F H 4-CONHPh-Ph 391 4-F H 4-CON-Ph 393 4-F H 4-F-Ph
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380 4-F H 3-(1-pyrazolyl)-Ph 381 4-F H 3-(5-Me-1-tetrazolyl)-Ph 382 4-F H 3-(1-Me-5-tetrazolyl)-Ph 383 4-F H 3-(2-pyridyl)-Ph 384 4-F H 3-(2-thienyl)-Ph 385 4-F H 3-(2-furanyl)-Ph 386 4-F H 4-CN-Ph 387 4-F H 4-COMe-Ph 388 4-F H 4-COMe-Ph 389 4-F H 4-CONH2-Ph 390 4-F H 4-CONHMe-Ph 391 4-F H 4-F-Ph 392 4-F H 4-F-Ph 393 4-F H 4-Br-Ph 394 4-F H 4-SO2NH2-Ph 395 4-F H 4-SO2NHMe-Ph 397 4-F H 4-CF3-Ph 398 4-F H 4-CP3-Ph 4-CF3-Ph 4-CMB-Ph
381 4-F H 3-(5-Me-1-tetrazoly1)-Ph 382 4-F H 3-(1-Me-5-tetrazoly1)-Ph 383 4-F H 3-(2-pyridy1)-Ph 384 4-F H 3-(2-thieny1)-Ph 385 4-F H 3-(2-furany1)-Ph 386 4-F H 4-CN-Ph 387 4-F H 4-COMe-Ph 388 4-F H 4-COMe-Ph 389 4-F H 4-CONH2-Ph 390 4-F H 4-CONHMe-Ph 391 4-F H 4-F-Ph 392 4-F H 4-F-Ph 393 4-F H 4-Br-Ph 394 4-F H 4-SO2NH2-Ph 395 4-F H 4-SO2NHMe-Ph 396 4-F H 4-CF3-Ph 398 4-F H 4-OMe-Ph
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397 4-F H 4-CF3-Ph 398 4-F H 4-OMe-Ph
398 4-F H 4-OMe-Ph
シ ラフ 4−Γ H 4−SMe−Ph

400 4-F H 4-SOMe-Ph
401 4-F H 4-S02Me-Ph
402 4-F H 4-OH-Ph
403 4-F H 4-CH2OH-Ph
404 4-F H 4-CHOHMe-Ph
405 4-F H 4-COH (Me) 2-Ph
406 4-F H 4-Me-Ph
406 4-F H 4-Me-Ph 407 4-F H 4-Et-Ph

408	4-F	Н	4-iPr-Ph
409	4-F	H	4-tBu-Ph
410	4-F	H	4-CH2CO2Me-Ph
411	4-F	H	4-(1-piperidinyl)-Ph
412	4-F	H	4-(1-pyrrolidinyl)-Ph
413	4-F	H	4-(2-imidazolyl)-Ph
414	4-F	H	4-(1-imidazoly1)-Ph
415	4-F	H	4-(2-thiazoly1)-Ph
416	4-F	H	4-(3-pyrazolyl)-Ph
417	4-F	H	4-(1-pyrazoly1)-Ph
418	4-F	H	4-(5-Me-1-tetrazolyl)-Ph
419	4-F	H	4-(1-Me-5-tetrazolyl)-Ph
420	4-F	H	4-(2-pyridyl)-Ph
421	4-F	H	4-(2-thienyl)-Ph
422	4-F	H	4-(2-furany1)-Ph
423	4-F	H	2-CN-Ph
424	4-F	H	2-CN-FH 2-COMe-Ph
425	4-F	Н	2-COME-Ph
426	4-F	H	2-CO2Me-FH 2-CONH2-Ph
427	4-F	Н Н	2-CONHZ-FH 2-CONHMe-Ph
428	4-F	H	2-F-Ph
429	4-F	H	2-r-rn 2-Cl-Ph
430	4-F	H	2-Br-Ph
431	4-F	Н	2-SO2NH2-Ph
432	4-F	H	2-SO2NHMe-Ph
433	4-F	H	2-CF3-Ph
434	4-F	H	2-OMe-Ph
435	4-F	H	2-SMe-Ph
436	4-F	H	2-SOMe-Ph
437	4-F	H	2-S02Me-Ph
438	4-F	H	2-OH-Ph
439	4-F	Н	2-CH2OH-Ph
440	4-F	Η .	2-CHOHMe-Ph
441	4-F	H	2-COH (Me) 2-Ph
442	4-F	H	2-Me-Ph
443	4-F	H	2-Et-Ph
444	4-F	Н	2-iPr-Ph
445	· 4-F	Н	2-tBu-Ph
446	4-F	Н	2-CH2CO2Me-Ph
447	4-F	Н	2-(1-piperidinyl)-Ph
448	4-F	H	2-(1-pyrrolidinyl)-Ph
449	4-F	Н	2-(2-imidazolyl)-Ph
450	4-F	Н	2-(1-imidazolyl)-Ph
451	4-F	H	2-(2-thiazolyl)-Ph
452	4-F	H	2-(3-pyrazolyl)-Ph
453	4-F	H	2-(1-pyrazolyl)-Ph
454	4-F	H	2-(5-Me-1-tetrazoly1)-Ph
455	4-F	H	2-(1-Me-5-tetrazoly1)-Ph
456	4-F	H	2-(2-pyridyl)-Ph
457	4-F	H	2-(2-thienyl)-Ph
458	4-F	H	2-(2-furanyl)-Ph
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459 4-F H 2,4-diF-Ph 460 4-F H 2,5-diF-Ph 461 4-F H 2,6-diF-Ph 462 4-F H 3,4-diF-Ph 463 4-P H 3,5-diF-Ph 464 4-F H 2,4-diCl-Ph 465 4-F H 2,5-diCl-Ph 465 4-F H 2,5-diCl-Ph 466 4-F H 2,5-diCl-Ph 467 4-F H 3,4-diCl-Ph 468 4-F H 3,4-diCl-Ph 469 4-F H 3,5-diCl-Ph 470 4-F H 3,5-diCl-Ph 471 4-F H 3,5-diCl-Ph 472 4-F H 3,5-diCl-Ph 473 4-F H 5-Cl-2-MeO-Ph 474 4-F H 5-Cl-2-MeO-Ph 475 4-F H 3,4-OCH2O-Ph 476 4-F H 3,4-OCH2O-Ph 477 4-F H 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 478 4-F H 2-MeO-5-(1-Me-5-tetrazolyl)-Ph 480 4-F H 3-CONH2-5-(1-Me-5-tetrazolyl)-Ph 481 4-F H 2-meo-5-(1-Me-5-tetrazolyl)-Ph 482 4-F H 3-conhill 1-maphthyl 483 4-F H 2-thienyl 484 4-F H 3-thienyl 485 4-F H 3-thienyl 486 4-F H 3-thienyl 487 4-F H 3-thienyl 487 4-F H 3-thienyl 488 4-F H 3-thienyl 489 4-F H 3-thienyl 489 4-F H 3-indolyl 490 4-F H 3-indolyl 491 4-F H 3-indolyl 492 4-F H 3-indolyl 493 4-F H 3-indolyl 494 4-F H 3-indolyl 495 4-F H 3-indolyl 496 4-F H 3-indolyl 497 4-F H 3-indolyl 498 4-F H 3-indolyl 499 4-F H				· · · · · · · · · · · · · · · · · · ·
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508 4-F H 2-benzoxazolyl	507	4-F	H	
	508	4-F	H	
	509	4-F	Н	

510	4-F	Тн	1-adamanty1
511	4-F	H	2-adamanty1
512	4-F	H	i-Pr
513	4-F	H	t-Bu
514	4-F	H	c-Hex
515	4-F	H	C-nex CH2CH2OMe
516	4-F		
517	4-F	H	CH2CONH2
518	4-F		CH2CO2Me
519		H	CH (CH2Ph) CO2Me
	4-F	H	CH2CH2NMe2
520	4-F	H	benzyl
521	4-F	H	phenethyl
522	4-F	H	2-(morpholin-1-yl)-Et
523	3-C1	H	Ph
524	3-C1	H	3-CN-Ph
525	3-C1	H	3-COMe-Ph
526	3-C1	H	3-CO2Me-Ph
527	3-Cl	H	3-CONH2-Ph
528	3-C1	H	3-CONHMe-Ph
529	3-C1	H	3-F-Ph
530	3-C1	H	3-C1-Ph
531	3-C1	H	3-Br-Ph
532	3-C1	H	3-SO2NH2-Ph
533	3-C1	H	3-SO2NHMe-Ph
534	3-C1	H	3-CF3-Ph
535	3-C1	H	3-OMe-Ph
536	3-C1	H	3-SMe-Ph
537	3-C1	H	3-SOMe-Ph
538	3-C1	H	3-SO2Me-Ph
539	3-Cl	H	3-OH-Ph
540	3-C1	H	3-CH2OH-Ph
541	3-C1	Н	3-CHOHMe-Ph
542	3-Cl	н	3-COH (Me) 2-Ph
543	3-C1	H	3-Me-Ph
544	3-C1	H	3-Et-Ph
545	3-C1	H	3-iPr-Ph
546	3-C1	H	3-tBu-Ph
547	3-C1	H	3-CH2CO2Me-Ph
548	3-C1	H	3-(1-piperidinyl)-Ph
549	3-C1	H	3-(1-pyrrolidinyl)-Ph
550	3-C1	H	3-(2-imidazolyl)-Ph
551_	3-C1	H	3-(1-imidazolyl)-Ph
552	3-C1	H	3-(2-thiazolyl)-Ph
553	3-C1	H	3-(3-pyrazolyl)-Ph
554	3-C1	Н	3-(1-pyrazolyl)-Ph
555	3-C1	Н	3-(5-Me-1-tetrazolyl)-Ph
556	3-C1	Н	3-(1-Me-5-tetrazoly1)-Ph
557	3-C1	Н	3-(2-pyridyl)-Ph
558	3-C1	H	3-(2-thienyl)-Ph
559	3-C1	H	3-(2-furanyl)-Ph
560	3-C1		4-CN-Ph

561	3-C1	Н	4-COMe-Ph
562	3-C1	H	4-CO2Me-Ph
563	3-C1	H	4-CONH2-Ph
564	3-C1	H	4-CONHMe-Ph
565	3-C1	H	4-CONHPh-Ph
566	3-C1	H	4-F-Ph
567	3-C1	H	4-rrn 4-cl-Ph
568	3-C1	H	4-C1-F11 4-Br-Ph
569	3-C1	н	4-SO2NH2-Ph
570	3-C1	H	4-SO2NH2-FH 4-SO2NHMe-Ph
571	3-C1	H	4-CF3-Ph
572	3-C1	H	4-OMe-Ph
573	3-C1	н	4-SMe-Ph
574	3-C1	н	
575	3-C1	Н	4-SOMe-Ph
576	3-C1		4-SO2Me-Ph
577	3-C1	H	4-OH-Ph
578	3-C1		4-CH2OH-Ph
579	3-C1	H	4-CHOHMe-Ph
		H	4-COH (Me) 2-Ph
580	3-C1	H	4-Me-Ph
581	3-C1	H	4-Et-Ph
582	3-C1	H	4-iPr-Ph
583	3-C1	H	4-tBu-Ph
584	3-C1	H	4-CH2CO2Me-Ph
585	3-C1	H	4-(1-piperidinyl)-Ph
586	3-Cl	H	4-(1-pyrrolidinyl)-Ph
587 588	3-Cl 3-Cl	H H	4-(2-imidazolyl)-Ph
589	3-C1	H H	4-(1-1MICAZOLYI)-FII
590	3-C1	H	4-(2-thiazolyl)-Ph 4-(3-pyrazolyl)-Ph
591	3-C1	H H	
592	3-C1	<u>н</u> Н	4-(1-pyrazolyl)-Ph
593	3-C1	<u>н</u>	4-(5-Me-1-tetrazoly1)-Ph
594	3-C1	H	4-(1-Me-5-tetrazoly1)-Ph
595			4-(2-pyridyl)-Ph
596	3-C1 3-C1	H H	4-(2-thienyl)-Ph 4-(2-furanyl)-Ph
597	3-C1	H	2-CN-Ph
598	3-C1	H	
599			2-COMe-Ph
600	3-C1 3-C1	H	2-CO2Me-Ph
601			2-CONH2-Ph 2-CONHMe-Ph
602	3-C1 3-C1	H	2-CONHME-Ph 2-F-Ph
603	3-C1	H H	
604	3-C1		2-C1-Ph
605	3-C1	H	2-Br-Ph
606		H	2-SO2NH2-Ph
	3-C1	H	2-SO2NHMe-Ph
607	3-C1	H	2-CF3-Ph
608	3-C1	H	2-OMe-Ph
609	3-C1	H	2-SMe-Ph
610	3-C1	H	2-SOMe-Ph
611	3-C1	H	2-SO2Me-Ph

		,	
612	3-C1	H	2-OH-Ph
613	3-Cl	H	2-CH2OH-Ph
614	3-C1	H	2-CHOHMe-Ph
615	3-C1	H	2-COH(Me)2-Ph
616	3-C1	H	2-Me-Ph
617	3-C1	H	2-Et-Ph
618	3-C1	H	2-iPr-Ph
619	3-C1	H	2-tBu-Ph
620	3-C1	H	2-CH2CO2Me-Ph
621	3-C1	H	2-(1-piperidinyl)-Ph
622	3-C1	Н	2-(1-pyrrolidinyl)-Ph
623	3-C1	H	2-(2-imidazolyl)-Ph
624	3-C1	Н	2-(1-imidazolyl)-Ph
625	3-C1	н	2-(2-thiazolyl)-Ph
626	3-C1	н	2-(3-pyrazoly1)-Ph
627	3-C1	н	2-(1-pyrazolyl)-Ph
628	3-C1	Н	2-(5-Me-1-tetrazolyl)-Ph
629	3-C1	Н	2-(1-Me-5-tetrazolyl)-Ph
630	3-C1	H	2-(2-pyridyl)-Ph
631	3-C1	H	2-(2-thienyl)-Ph
632	3-C1	H	2-(2-furany1)-Ph
633	3-C1	H	2,4-diF-Ph
634	3-C1	H	2,5-diF-Ph
635	3-C1	H	2,6-diF-Ph
636	3-C1	H	3,4-diF-Ph
637	3-C1	H	3,5-diF-Ph
638	3-C1	H	2,4-diCl-Ph
639	3-C1	H	2,4-diCl-Ph
640	3-C1	H	2,6-diCl-Ph
641	3-C1	Н	3,4-diCl-Ph
642	3-C1	Н	3,5-diCl-Ph
643	3-C1	H	3,4-diCF3-Ph
644	3-C1	H	3,5-diCF3-Ph
645	3-C1	H	5-C1-2-MeO-Ph
646	3-C1	H	5-C1-2-Me-Ph
647	3-C1	$\frac{\Pi}{H}$	2-F-5-Me-Ph
648	3-C1	H	
649	3-C1		3-F-5-morpholino-Ph
650		<u> </u>	3,4-OCH2O-Ph
651	3-C1	<u> </u>	3,4-OCH2CH2O-Ph
652	3-C1	H	2-MeO-5-CONH2-Ph
	3-C1	<u>H</u>	2-MeO-4-(1-Me-5-tetrazoly1)-Ph
653	3-C1	H	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
654	3-C1	H	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
655	3-C1	H	1-naphthyl
656	3-C1	<u>H</u>	2-naphthyl
657	3-C1	<u>H</u>	2-thienyl
658	3-C1	H	3-thienyl
659	3-C1	H	2-furanyl
660	3-C1	H	3-furanyl
661	3-C1	H	2-pyridyl
662	3-C1	H	3-pyridyl

Section Sect	663	3-C1	tr	A
Section Sect			H	4-pyridyl
666 3-C1 H 5-indolyl				
667 3-Cl H 3-indazolyl				
Section Sect				5-indoly1
669 3-Cl H 6-indazolyl 670 3-Cl H 6-indazolyl 671 3-Cl H 3-Ci H 3-indazolyl 672 3-Cl H 3-indazolyl 673 3-Cl H 3-indazolyl 674 3-Cl H 3-indazolyl 675 3-Cl H 2-thiadiazolyl 676 3-Cl H 2-thiadiazolyl 677 3-Cl H 5-Ac-4-Me-2-thiazolyl 677 3-Cl H 5-tetrazolyl 678 3-Cl H 5-benzimidazolyl 679 3-Cl H 5-benzimidazolyl 679 3-Cl H 5-benzimidazolyl 680 3-Cl H 5-benzothiazolyl 681 3-Cl H 5-benzothiazolyl 682 3-Cl H 5-benzoxazolyl 683 3-Cl H 5-benzoxazolyl 684 3-Cl H 1-adamantyl 685 3-Cl H 1-adamantyl 686 3-Cl H 1-adamantyl 687 3-Cl H 1-adamantyl 688 3-Cl H 1-pr 687 3-Cl H 1-pr 687 3-Cl H 1-pr 687 3-Cl H 1-pr 687 3-Cl H 1-pr 689 3-Cl H 1-pr 690 3-Cl H 1-pr 690 3-Cl H 1-pr 691 3-Cl H 1-pr 692 3-Cl H 1-pr 693 3-Cl H 1-pr 694 3-Cl H 1-phenethyl 695 3-Cl H 1-phenethyl 696 3-Cl H 1-phenethyl 697 4-Cl H 1-phenethyl 698 4-Cl H 1-phenethyl 699 4-Cl H 3-COMP-Ph 700 4-Cl H 3-COMP-Ph 700 4-Cl H 3-COMP-Ph 700 4-Cl H 3-SOMP-Ph 701 4-Cl H 3-SOMP-Ph 701 4-Cl H 3-SOMP-Ph				
670 3-Cl H 2-imidazolyl 671 3-Cl H 2-imidazolyl 672 3-Cl H 3-isoxazoyl 673 3-Cl H 2-thiadiazolyl 674 3-Cl H 2-thiadiazolyl 675 3-Cl H 2-thiadiazolyl 676 3-Cl H 2-thiadiazolyl 677 3-Cl H 3-extractoryl 677 3-Cl H 5-Ac-4-Me-2-thiazolyl 677 3-Cl H 5-tetrazolyl 678 3-Cl H 2-benzimidazolyl 679 3-Cl H 5-benzimidazolyl 680 3-Cl H 5-benzimidazolyl 681 3-Cl H 5-benzothiazolyl 682 3-Cl H 5-benzoxazolyl 683 3-Cl H 5-benzoxazolyl 684 3-Cl H 1-adamantyl 685 3-Cl H 1-adamantyl 686 3-Cl H 1-adamantyl 687 3-Cl H 1-adamantyl 688 3-Cl H 1-benzoxazolyl 689 3-Cl H 1-benzoxazolyl 689 3-Cl H 1-benzoxazolyl 689 3-Cl H 1-benzoxazolyl 690 3-Cl H 1-benzoxazolyl 691 3-Cl H 1-benzoxazolyl 691 3-Cl H 1-benzoxazolyl 692 3-Cl H 1-benzoxazolyl 693 3-Cl H 1-benzoxazolyl 694 3-Cl H 1-benzoxazolyl 695 3-Cl H 1-benzoxazolyl 696 3-Cl H 1-benzoxazolyl 697 3-Cl H 1-benzoxazolyl 698 3-Cl H 1-benzoxazolyl 699 3-Cl H 1-benzoxazolyl 690 3-Cl H 1-benzoxazolyl 691 3-Cl H 1-benzoxazolyl 693 3-Cl H 1-benzoxazolyl 694 3-Cl H 1-benzoxazolyl 695 3-Cl H 1-benzoxazolyl 697 3-Cl H 1-benzoxazolyl 698 4-Cl H 1-benzoxazolyl 699 4-Cl H 1-benzoxazolyl 690 4-Cl H 1-benzoxazolyl		3-C1		3-indazolyl
671 3-C1 H 3-isoxazoyl 672 3-C1 H 3-isoxazoyl 673 3-C1 H 2-thiadiazolyl 674 3-C1 H 2-thiadiazolyl 675 3-C1 H 2-thiadiazolyl 675 3-C1 H 5-Ac-4-Me-2-thiazolyl 676 3-C1 H 5-Ac-4-Me-2-thiazolyl 677 3-C1 H 5-benzimidazolyl 678 3-C1 H 2-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 680 3-C1 H 2-benzothiazolyl 681 3-C1 H 5-benzothiazolyl 682 3-C1 H 5-benzothiazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 5-benzoxazolyl 685 3-C1 H 1-adamantyl 686 3-C1 H 1-adamantyl 686 3-C1 H 1-Bu 687 3-C1 H 1-Bu 688 3-C1 H 1-Bu 689 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 697 3-C1 H 1-Bu 698 3-C1 H 1-Bu 699 3-C1 H 1-Bu 699 3-C1 H 1-Bu 699 3-C1 H 1-Bu 699 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 697 3-C1 H 1-Bu 698 3-C1 H 1-Bu 699 3-C1 H 1-Bu 690 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 696 3-C1 H 1-Bu 697 4-C1 H 1-Bu 698 4-C1 H 1-Bu 699 4-C1 H 1-Bu 699 4-C1 H 1-Bu 699 4-C1 H 1-Bu 690 4-				
672 3-C1 H 3-isoxazoyl 673 3-C1 H 2-thiadiazolyl 674 3-C1 H 2-thiadiazolyl 675 3-C1 H 2-thiazolyl 676 3-C1 H 5-AC-4-Me-2-thiazolyl 677 3-C1 H 5-tetrazolyl 677 3-C1 H 5-tetrazolyl 678 3-C1 H 5-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 680 3-C1 H 5-benzothiazolyl 681 3-C1 H 5-benzothiazolyl 682 3-C1 H 5-benzothiazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 5-benzoxazolyl 685 3-C1 H 1-adamantyl 686 3-C1 H 1-adamantyl 687 3-C1 H 1-adamantyl 688 3-C1 H 1-adamantyl 689 3-C1 H 1-Bu 690 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 696 3-C1 H 1-Bu 697 4-C1 H 1-Bu 698 4-C1 H 1-Bu 699 4-C1 H 1-Bu 700				
673				
674 3-C1 H 2-thiadiazolyl 675 3-C1 H 2-thiadiazolyl 676 3-C1 H 5-Ac-4-Me-2-thiazolyl 677 3-C1 H 5-Ac-4-Me-2-thiazolyl 678 3-C1 H 5-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 680 3-C1 H 2-benzothiazolyl 681 3-C1 H 2-benzothiazolyl 682 3-C1 H 5-benzothiazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 5-benzoxazolyl 685 3-C1 H 5-benzoxazolyl 686 3-C1 H 1-adamantyl 687 3-C1 H 1-adamantyl 688 3-C1 H 1-Bu 688 3-C1 H 1-Bu 689 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 696 3-C1 H 1-Bu 697 4-C1 H 1-Bu 698 4-C1 H 1-Bu 699 4-C1 H 1-Bu				
675 3-C1 H 5-Ac-4-Me-2-thiazolyl 676 3-C1 H 5-Ac-4-Me-2-thiazolyl 677 3-C1 H 5-Etrazolyl 678 3-C1 H 2-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 680 3-C1 H 2-benzimidazolyl 681 3-C1 H 5-benzothiazolyl 682 3-C1 H 2-benzoxazolyl 683 3-C1 H 5-benzoxazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 1-adamantyl 685 3-C1 H 2-adamantyl 686 3-C1 H 1-adamantyl 687 3-C1 H 1-Bu 688 3-C1 H 1-Bu 688 3-C1 H 1-Bu 689 3-C1 H 1-Bu 689 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 696 3-C1 H 1-Bu 697 4-C1 H 1-Bu 698 4-C1 H 1-Bu 699 4-C1 H 1-Bu 69				
676 3-C1 H 5-Ac-4-Me-2-thiazolyl 677 3-C1 H 2-benzimidazolyl 678 3-C1 H 2-benzimidazolyl 679 3-C1 H 2-benzimidazolyl 680 3-C1 H 2-benzothiazolyl 681 3-C1 H 2-benzothiazolyl 681 3-C1 H 2-benzothiazolyl 682 3-C1 H 2-benzoxazolyl 683 3-C1 H 2-benzoxazolyl 684 3-C1 H 1-adamantyl 685 3-C1 H 2-adamantyl 686 3-C1 H 1-pr 687 3-C1 H 1-pr 688 3-C1 H 1-pr 689 3-C1 H 1-pr 689 3-C1 H 1-pr 689 3-C1 H 1-pr 690 3-C1 H 1-pr 691 3-C1 H 1-pr 692 3-C1 H 1-ph 693 3-C1 H 1-ph 694 3-C1 H 1-ph 695 3-C1 H 1-ph 696 3-C1 H 1-ph 697 4-C1 H 1-ph 698 4-C1 H 1-ph 699				2-thiadiazolyl
677 3-Cl H 2-benzimidazolyl 678 3-Cl H 2-benzimidazolyl 679 3-Cl H 5-benzimidazolyl 680 3-Cl H 2-benzothiazolyl 681 3-Cl H 5-benzothiazolyl 681 3-Cl H 5-benzothiazolyl 682 3-Cl H 2-benzoxazolyl 683 3-Cl H 5-benzoxazolyl 684 3-Cl H 5-benzoxazolyl 685 3-Cl H 1-adamantyl 686 3-Cl H 1-adamantyl 686 3-Cl H 1-Pr 687 3-Cl H 1-Pr 688 3-Cl H 1-Pr 689 3-Cl H 1-Pr 689 3-Cl H 1-Pr 689 3-Cl H 1-Pr 690 3-Cl H 1-Pr 691 3-Cl H 1-Pr 692 3-Cl H 1-Pr 693 3-Cl H 1-Pr 694 3-Cl H 1-Pr 695 3-Cl H 1-Pr 696 3-Cl H 1-Pr 697 4-Cl H 1-Pr 698 4-Cl H 1-Pr 698 4-Cl H 1-Pr 699 4-Cl H				
678 3-C1 H 2-benzimidazolyl 679 3-C1 H 5-benzimidazolyl 680 3-C1 H 2-benzothiazolyl 681 3-C1 H 2-benzothiazolyl 682 3-C1 H 2-benzoxazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 5-benzoxazolyl 685 3-C1 H 1-adamantyl 686 3-C1 H 1-adamantyl 687 3-C1 H 1-Bu 688 3-C1 H 1-Bu 688 3-C1 H 1-Bu 689 3-C1 H 1-Bu 689 3-C1 H 1-Bu 689 3-C1 H 1-Bu 689 3-C1 H 1-Bu 690 3-C1 H 1-Bu 691 3-C1 H 1-Bu 692 3-C1 H 1-Bu 693 3-C1 H 1-Bu 693 3-C1 H 1-Bu 694 3-C1 H 1-Bu 695 3-C1 H 1-Bu 696 3-C1 H 1-Bu 697 4-C1 H 1-Bu 698 4-C1 H 1-Bu 699 4-C1 H 1-Bu 699 4-C1 H 1-Bu 699 4-C1 H 1-Bu 700 4-C1 H 1-Bu 701 4-C1 H 1-Bu 702 4-C1 H 1-Bu 703 4-C1 H 1-Bu 704 4-C1 H 1-Bu 705 4-C1 H 1-Bu 706 4-C1 H 1-Bu 707 4-C1 H 1-Bu 708 4-C1 H 1-Bu 709 4-C1 H 1-Bu 70		3-C1		5-Ac-4-Me-2-thiazolyl
679 3-C1 H 2-benzimidazolyl 680 3-C1 H 2-benzothiazolyl 681 3-C1 H 5-benzothiazolyl 682 3-C1 H 5-benzoxazolyl 683 3-C1 H 5-benzoxazolyl 684 3-C1 H 1-adamantyl 685 3-C1 H 2-adamantyl 686 3-C1 H 1-pr 687 3-C1 H 1-pr 688 3-C1 H 1-pr 688 3-C1 H 1-pr 689 3-C1 H 1-pr 689 3-C1 H 1-pr 689 3-C1 H 1-pr 690 3-C1 H 1-pr 691 3-C1 H 1-pr 692 3-C1 H 1-pr 693 3-C1 H 1-pr 694 3-C1 H 1-pr 695 3-C1 H 1-pr 696 3-C1 H 1-pr 697 4-C1 H 1-pr 698 4-C1 H 1-pr 698 4-C1 H 1-pr 699 4-C1			Н	5-tetrazolyl
680 3-C1 H 2-benzothiazolyl 681 3-C1 H 5-benzothiazolyl 682 3-C1 H 2-benzoxazolyl 683 3-C1 H 1-adamantyl 684 3-C1 H 1-adamantyl 685 3-C1 H 2-adamantyl 686 3-C1 H 1-Pr 687 3-C1 H 1-Pr 688 3-C1 H 1-Pr 689 3-C1 H 1-Pr 689 3-C1 H 1-Pr 690 3-C1 H 1-Pr 691 3-C1 H 1-Pr 691 3-C1 H 1-Pr 692 3-C1 H 1-Pr 693 3-C1 H 1-Pr 693 3-C1 H 1-Pr 694 3-C1 H 1-Pr 695 3-C1 H 1-Pr 696 3-C1 H 1-Pr 697 4-C1 H 1-Pr 698 4-C1 H 1-Pr 699 4-C1 H 1-Pr 690 4-C	678	3-C1	H	2-benzimidazolyl
681 3-Cl H 5-benzothiazolyl 682 3-Cl H 2-benzoxazolyl 683 3-Cl H 5-benzoxazolyl 684 3-Cl H 1-adamantyl 685 3-Cl H 1-Pr 687 3-Cl H C-Hex 689 3-Cl H C-Hex 689 3-Cl H CH2CO2Me 690 3-Cl H CH2CO2Me 691 3-Cl H CH2CO2Me 692 3-Cl H CH2CO2Me 693 3-Cl H CH2CH2NMe2 694 3-Cl H Denzyl 695 3-Cl H Denzyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H 3-CN-Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-COM-Ph 700 4-Cl H 3-COM-Ph	679	3-C1	H	5-benzimidazolyl
681 3-C1 H 2-benzothiazoly1 682 3-C1 H 2-benzoxazoly1 683 3-C1 H 5-benzoxazoly1 684 3-C1 H 1-adamanty1 685 3-C1 H 2-adamanty1 686 3-C1 H 1-Pr 687 3-C1 H C-Hex 688 3-C1 H C-Hex 689 3-C1 H CH2CN20Me 690 3-C1 H CH2CO2Me 691 3-C1 H CH2CH2NMe2 692 3-C1 H CH2CH2NMe2 693 3-C1 H CH2CH2NMe2 694 3-C1 H Denzyl 695 3-C1 H Denzyl 696 3-C1 H Denzyl 697 4-C1 H 3-CN-Ph 699 4-C1 H 3-CN-Ph 699 4-C1 H 3-COM-Ph </td <td>680</td> <td>3-C1</td> <td>H</td> <td></td>	680	3-C1	H	
682 3-Cl H 2-benzoxazolyl 683 3-Cl H 5-benzoxazolyl 684 3-Cl H 1-adamantyl 685 3-Cl H i-Pr 687 3-Cl H t-Bu 688 3-Cl H CH2CH2OMe 689 3-Cl H CH2CO2Me 690 3-Cl H CH2CO2Me 691 3-Cl H CH2CO2Me 692 3-Cl H CH2CH2NMe2 693 3-Cl H CH2CH2NMe2 694 3-Cl H Denzyl 695 3-Cl H Denzyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H 3-CN-Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-COM-Ph 700 4-Cl H 3-COM-Ph 701 4-Cl H 3-CONHM-Ph	681	3-C1	H	
683 3-Cl H 5-benzoxazolyl 684 3-Cl H 1-adamantyl 685 3-Cl H 2-adamantyl 686 3-Cl H i-Pr 687 3-Cl H c-Hex 689 3-Cl H CH2CH2OMe 690 3-Cl H CH2CO2Me 691 3-Cl H CH2CD2OMe 692 3-Cl H CH2CD2Me 693 3-Cl H CH2CD2Me 694 3-Cl H CH2CH2NMe2 694 3-Cl H CH2CH2NMe2 694 3-Cl H Denzyl 695 3-Cl H Denzyl 696 3-Cl H Denzyl 697 4-Cl H 3-CN-Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-COM-Ph 701 4-Cl H 3-COMHP-Ph <	682	3-Cl	H	
684 3-Cl H 1-adamantyl 685 3-Cl H 2-adamantyl 686 3-Cl H i-Pr 687 3-Cl H c-Hex 688 3-Cl H CH2CH2OMe 690 3-Cl H CH2CO2Me 691 3-Cl H CH2CO2Me 692 3-Cl H CH2CH2NMe2 693 3-Cl H CH2CH2NMe2 694 3-Cl H Denzyl 695 3-Cl H Denzyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H 3-CN-Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-CN-Ph 699 3-Cl H 3-CN-Ph 694 3-Cl H 3-CN-Ph 695 3-Cl H 3-CN-Ph 699 4-Cl H 3-CN-Ph <	683		H	
685 3-Cl H 2-adamantyl 686 3-Cl H i-Pr 687 3-Cl H t-Bu 688 3-Cl H CH2CH2OMe 690 3-Cl H CH2CO2Me 691 3-Cl H CH2CO2Me 692 3-Cl H CH(CH2Ph) CO2Me 693 3-Cl H CH2CH2NMe2 694 3-Cl H Denzyl 695 3-Cl H Denzyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H 3-CN-Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-COMe-Ph 700 4-Cl H 3-COMH2-Ph 701 4-Cl H 3-CONH2-Ph 702 4-Cl H 3-F-Ph 704 4-Cl H 3-SO2NH2-Ph 705 4-Cl H 3-SO2NH2-Ph				
686 3-C1 H i-Pr 687 3-C1 H t-Bu 688 3-C1 H c-Hex 689 3-C1 H CH2CH2OMe 690 3-C1 H CH2CO2Me 691 3-C1 H CH2CH2Ph) CO2Me 692 3-C1 H CH2CH2NMe2 693 3-C1 H CH2CH2NMe2 694 3-C1 H benzyl 695 3-C1 H phenethyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H 3-CN-Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COM-Ph 701 4-C1 H 3-COM-Ph 702 4-C1 H 3-COMHM-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-SOZNHM-Ph 705 4-C1 H 3-SOZNHM-Ph				
687 3-C1 H c-Hex 688 3-C1 H c-Hex 689 3-C1 H CH2CH2OMe 690 3-C1 H CH2CO2Me 691 3-C1 H CH2CH2NMe2 692 3-C1 H CH2CH2NMe2 693 3-C1 H Denzyl 694 3-C1 H Denzyl 695 3-C1 H Denzyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H 3-CN-Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COME-Ph 700 4-C1 H 3-COME-Ph 701 4-C1 H 3-CONHAP-Ph 702 4-C1 H 3-F-Ph 704 4-C1 H 3-SO2NHAP-Ph 705 4-C1 H 3-SO2NHAP-Ph 708 4-C1 H 3-SO2NHAP-Ph				<u> </u>
688 3-C1 H C-Hex 689 3-C1 H CH2CH2OMe 690 3-C1 H CH2CONH2 691 3-C1 H CH2CO2Me 692 3-C1 H CH(CH2Ph) CO2Me 693 3-C1 H CH2CH2NMe2 694 3-C1 H benzyl 695 3-C1 H phenethyl 696 3-C1 H Phenethyl 697 4-C1 H Ph 698 4-C1 H 3-CMPh 699 4-C1 H 3-COMPh 700 4-C1 H 3-COMPh 701 4-C1 H 3-COMPh 702 4-C1 H 3-F-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-SO2NH2-Ph 705 4-C1 H 3-SO2NH2-Ph 708 4-C1 H 3-COSME-Ph				
689 3-C1 H CH2CH2OMe 690 3-C1 H CH2CONH2 691 3-C1 H CH2CO2Me 692 3-C1 H CH(CH2Ph) CO2Me 693 3-C1 H CH2CH2NMe2 694 3-C1 H Denzyl 695 3-C1 H Denzyl 696 3-C1 H Ph 697 4-C1 H Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 701 4-C1 H 3-COMH2-Ph 701 4-C1 H 3-CONH2-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-SONHE-Ph 705 4-C1 H 3-SO2NH2-Ph 706 4-C1 H 3-SO2NHAP-Ph 709 4-C1 H 3-SO2NH-Ph 710 4-C1 H 3-SOM-Ph				
690 3-C1 H CH2CONH2 691 3-C1 H CH2CO2Me 692 3-C1 H CH(CH2Ph)CO2Me 693 3-C1 H CH2CH2NMe2 694 3-C1 H benzyl 695 3-C1 H phenethyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H 3-CN-Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 700 4-C1 H 3-COMH2-Ph 701 4-C1 H 3-CONH2-Ph 702 4-C1 H 3-F-Ph 703 4-C1 H 3-SP-Ph 704 4-C1 H 3-SO2NH2-Ph 705 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 709 4-C1 H 3-SMe-Ph 710 4-C1 H 3-SMe				
691 3-C1 H CH2CO2Me 692 3-C1 H CH(CH2Ph) CO2Me 693 3-C1 H CH2CH2NMe2 694 3-C1 H benzyl 695 3-C1 H phenethyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H 3-CN-Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 700 4-C1 H 3-COMH2-Ph 701 4-C1 H 3-CONH2-Ph 702 4-C1 H 3-CN-Ph 703 4-C1 H 3-CONHME-Ph 704 4-C1 H 3-SP-Ph 705 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHME-Ph 708 4-C1 H 3-OME-Ph 710 4-C1 H 3-SME-Ph 711 4-C1 H 3-S				
692 3-Cl H CH(CH2Ph)CO2Me 693 3-Cl H CH2CH2NMe2 694 3-Cl H benzyl 695 3-Cl H phenethyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H Ph 698 4-Cl H 3-CN-Ph 699 4-Cl H 3-COMe-Ph 700 4-Cl H 3-COMH2-Ph 701 4-Cl H 3-CONH2-Ph 702 4-Cl H 3-F-Ph 703 4-Cl H 3-F-Ph 704 4-Cl H 3-SO2NH2-Ph 705 4-Cl H 3-SO2NH2-Ph 706 4-Cl H 3-SO2NHB-Ph 708 4-Cl H 3-OME-Ph 709 4-Cl H 3-SME-Ph 710 4-Cl H 3-SME-Ph 711 4-Cl H 3-SO2ME-Ph </td <td></td> <td></td> <td></td> <td></td>				
693 3-Cl H CH2CH2NMe2 694 3-Cl H benzyl 695 3-Cl H phenethyl 696 3-Cl H 2-(morpholin-1-yl)-Et 697 4-Cl H Ph 698 4-Cl H 3-COM-Ph 699 4-Cl H 3-COME-Ph 700 4-Cl H 3-CONH2-Ph 701 4-Cl H 3-CONHME-Ph 702 4-Cl H 3-F-Ph 704 4-Cl H 3-F-Ph 705 4-Cl H 3-SO2NH2-Ph 706 4-Cl H 3-SO2NH2-Ph 708 4-Cl H 3-CF3-Ph 709 4-Cl H 3-OMe-Ph 710 4-Cl H 3-SMe-Ph 711 4-Cl H 3-SO2Me-Ph				
694 3-C1 H benzyl 695 3-C1 H phenethyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 700 4-C1 H 3-CONH2-Ph 701 4-C1 H 3-CONHMe-Ph 702 4-C1 H 3-F-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-SO2NH2-Ph 705 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 708 4-C1 H 3-OMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SOMe-Ph				
695 3-C1 H phenethyl 696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 700 4-C1 H 3-COMe-Ph 701 4-C1 H 3-CONH2-Ph 702 4-C1 H 3-F-Ph 703 4-C1 H 3-ST-Ph 704 4-C1 H 3-SP-Ph 705 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 708 4-C1 H 3-CF3-Ph 709 4-C1 H 3-SMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SO2Me-Ph				
696 3-C1 H 2-(morpholin-1-yl)-Et 697 4-C1 H Ph 698 4-C1 H 3-CN-Ph 699 4-C1 H 3-COMe-Ph 700 4-C1 H 3-COMe-Ph 701 4-C1 H 3-CONH2-Ph 702 4-C1 H 3-F-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-Br-Ph 705 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 708 4-C1 H 3-CF3-Ph 709 4-C1 H 3-OMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SO2Me-Ph				
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700 4-C1 H 3-CO2Me-Ph 701 4-C1 H 3-CONH2-Ph 702 4-C1 H 3-CONHMe-Ph 703 4-C1 H 3-F-Ph 704 4-C1 H 3-Br-Ph 705 4-C1 H 3-SO2NH2-Ph 706 4-C1 H 3-SO2NHMe-Ph 707 4-C1 H 3-CF3-Ph 708 4-C1 H 3-OMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SO2Me-Ph				
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703 4-C1 H 3-F-Ph 704 4-C1 H 3-G1-Ph 705 4-C1 H 3-Br-Ph 706 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 708 4-C1 H 3-CF3-Ph 709 4-C1 H 3-OME-Ph 710 4-C1 H 3-SME-Ph 711 4-C1 H 3-SOME-Ph 712 4-C1 H 3-SOME-Ph			'	
704 4-Cl H 3-Cl-Ph 705 4-Cl H 3-Br-Ph 706 4-Cl H 3-SO2NH2-Ph 707 4-Cl H 3-SO2NHMe-Ph 708 4-Cl H 3-CF3-Ph 709 4-Cl H 3-OMe-Ph 710 4-Cl H 3-SMe-Ph 711 4-Cl H 3-SOME-Ph 712 4-Cl H 3-SOME-Ph				
705 4-Cl H 3-Br-Ph 706 4-Cl H 3-SO2NH2-Ph 707 4-Cl H 3-SO2NHMe-Ph 708 4-Cl H 3-CF3-Ph 709 4-Cl H 3-OMe-Ph 710 4-Cl H 3-SMe-Ph 711 4-Cl H 3-SOMe-Ph 712 4-Cl H 3-SO2Me-Ph				
706 4-C1 H 3-SO2NH2-Ph 707 4-C1 H 3-SO2NHMe-Ph 708 4-C1 H 3-CF3-Ph 709 4-C1 H 3-OMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SO2Me-Ph				
707 4-Cl H 3-SO2NHMe-Ph 708 4-Cl H 3-CF3-Ph 709 4-Cl H 3-OMe-Ph 710 4-Cl H 3-SMe-Ph 711 4-Cl H 3-SOMe-Ph 712 4-Cl H 3-SO2Me-Ph				
708 4-C1 H				
709 4-C1 H 3-OMe-Ph 710 4-C1 H 3-SMe-Ph 711 4-C1 H 3-SOMe-Ph 712 4-C1 H 3-SO2Me-Ph				
710 4-Cl H 3-SMe-Ph 711 4-Cl H 3-SOMe-Ph 712 4-Cl H 3-SO2Me-Ph				
711 4-Cl H 3-SOMe-Ph 712 4-Cl H 3-SO2Me-Ph				
712 4-C1 H 3-SO2Me-Ph				
			H	
713 4-Cl H 3-OH-Ph			H	
	713	4-Cl	H	3-OH-Ph

714	4-C1	77	3-CH2OH-Ph
715		H	
716	4-C1	H	3-CHOHMe-Ph
717	4-Cl	H	3-COH (Me) 2-Ph
718	4-Cl	H	3-Me-Ph
719	4-C1	H	3-Et-Ph
	4-Cl	H	3-iPr-Ph
720	4-Cl	H	3-tBu-Ph
721	4-C1	H	3-CH2CO2Me-Ph
723	4-C1	H	3-(1-piperidinyl)-Ph
724	4-C1	H	3-(1-pyrrolidinyl)-Ph
725	4-C1	H	3-(2-imidazoly1)-Ph
	4-C1	H	3-(1-imidazoly1)-Ph
726	4-Cl	H	3-(2-thiazolyl)-Ph
727 728	4-C1	H	3-(3-pyrazolyl)-Ph
729	4-C1	H	3-(1-pyrazolyl)-Ph
730	4-C1	H	3-(5-Me-1-tetrazoly1)-Ph
731	4-Cl	H	3-(1-Me-5-tetrazoly1)-Ph
732	4-Cl	H H	3-(2-pyridy1)-Ph
733	4-Cl 4-Cl		3-(2-thienyl)-Ph
734	4-C1	H	3 (2 rurunyr) rn
735	4-C1		4-CN-Ph
736	4-C1	H	4-COMe-Ph
737	4-C1	H	4-CO2Me-Ph
738	4-C1	H	4-CONH2-Ph
739	4-C1	H	4-CONHMe-Ph 4-CONHPh-Ph
740	4-C1	Н Н	4-CONHPH-PH 4-F-Ph
741	4-C1	H	4-r-Pn 4-Cl-Ph
742	4-C1	H	4-C1-FH 4-Br-Ph
743	4-C1	H	4-SO2NH2-Ph
744	4-C1	H	4-SO2NHMe-Ph
745	4-C1	H	4-CF3-Ph
746	4-C1	H	4-OMe-Ph
747	4-C1	H	4-SMe-Ph
748	4-C1	H	4-SOMe-Ph
749	4-C1	Н Н	4-SO2Me-Ph
750	4-C1	- н	4-0H-Ph
751	4-C1	H	4-CH2OH-Ph
752	4-C1	H	4-CHOHMe-Ph
753	4-C1	H	4-COH (Me) 2-Ph
754	4-C1	H	4-Me-Ph
755	4-C1	H	4-Et-Ph
756	4-C1	H	4-iPr-Ph
757	4-C1	H	4-tBu-Ph
758	4-C1	H	4-CH2CO2Me-Ph
759	4-C1	H	4-(1-piperidinyl)-Ph
760	4-C1	H	4-(1-pyrrolidinyl)-Ph
761	4-C1	H	4-(2-imidazolyl)-Ph
762	4-C1	H	4-(1-imidazolyl)-Ph
763	4-C1	H	4-(2-thiazolyl)-Ph
764	4-C1	H	4-(3-pyrazoly1)-Ph
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		T	T
765	4-C1	H	4-(1-pyrazolyl)-Ph
766	4-Cl	H	4-(5-Me-1-tetrazoly1)-Ph
767	4-C1	H	4-(1-Me-5-tetrazoly1)-Ph
768	4-Cl	H	4-(2-pyridyl)-Ph
769	4-C1	H	4-(2-thienyl)-Ph
770	4-C1	H	4-(2-furanyl)-Ph
771	4-C1	Н	2-CN-Ph
772	4-C1	H	2-COMe-Ph
773	4-C1	H	2-CO2Me-Ph
774	4-C1	H	2-CONH2-Ph
775	4-C1	H	2-CONHMe-Ph
776	4-C1	H	2-F-Ph
777	4-C1	н	2-Cl-Ph
778	4-C1	H	2-C1-F11 2-Br-Ph
779	4-C1	H	2-SI-PH 2-SO2NH2-Ph
780	4-C1		
781		H	2-SO2NHMe-Ph
	4-Cl	H	2-CF3-Ph
782	4-C1	H	2-OMe-Ph
783	4-C1	H	2-SMe-Ph
784	4-Cl	H	2-SOMe-Ph
785	4-C1	H	2-SO2Me-Ph
786	4-C1	H	2-OH-Ph
787	4-C1	H	2-CH2OH-Ph
788	4-C1	H	2-CHOHMe-Ph
789	4-C1	H	2-COH (Me) 2-Ph
790	4-C1	H	2-Me-Ph
791	4-Cl	H	2-Et-Ph
792	4-Cl	H	2-iPr-Ph
793	4-C1	H	2-tBu-Ph
794	4-C1	H	2-CH2CO2Me-Ph
795	4-Cl	H	2-(1-piperidinyl)-Ph
796	4-C1	H	2-(1-pyrrolidinyl)-Ph
797	4-C1	H	2-(2-imidazolyl)-Ph
798	4-C1	H	2-(1-imidazolyl)-Ph
799	4-C1	H	2-(2-thiazolyl)-Ph
800	4-C1	H	2-(3-pyrazoly1)-Ph
801	4-C1	H	2-(1-pyrazolyl)-Ph
802	4-C1	H	2-(5-Me-1-tetrazolyl)-Ph
803	4-C1	H	2-(1-Me-5-tetrazolyl)-Ph
804	4-C1	H	2-(2-pyridyl)-Ph
805	4-C1	H	2-(2-pylidyl/-Fh 2-(2-thienyl)-Ph
806	4-C1	H	2-(2-threnyl)-Ph
807	4-C1	<u>н</u>	
808	4-C1	- н	2,4-diF-Ph
809			2,5-diF-Ph
	4-C1	H	2,6-diF-Ph
810	4-C1	H	3,4-diF-Ph
811	4-C1	<u>H</u>	3,5-diF-Ph
812	4-C1	H	2,4-diCl-Ph
813	4-C1	H	2,5-diCl-Ph
814	4-Cl	H	2,6-diCl-Ph
815	4-C1	H	3,4-diCl-Ph

			7
816	4-C1	H	3,5-diCl-Ph
817	4-Cl	H	3,4-diCF3-Ph
818	4-C1	H	3,5-diCF3-Ph
819	4-C1	H	, 5-C1-2-MeO-Ph
820	4-C1	H	5-Cl-2-Me-Ph
821	4-C1	H	2-F-5-Me-Ph
822	4-C1	H	3-F-5-morpholino-Ph
823	4-C1	H	3,4-OCH2O-Ph
824	4-C1	Н	3,4-OCH2CH2O-Ph
825	4-Cl	H	2-MeO-5-CONH2-Ph
826	4-C1	H	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
827	4-Cl	Н	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
828	4-C1	H	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
829	4-C1	Н	1-naphthyl
830	4-C1	Н	2-naphthyl
831	4-C1	H	2-thienyl
832	4-C1	Н	3-thienyl
833	4-Cl	H	2-furanyl
834	4-Cl	H	3-furanyl
835	4-Cl	H	2-pyridyl
836	4-C1	H	3-pyridyl
837	4-C1	Н	4-pyridyl
838	4-Cl	H	2-indolyl
839	4-Cl	H	3-indolyl
840	4-C1	H	5-indolyl
841	4-C1	H	6-indolyl
842	4-Cl	H	3-indazolyl
843	4-Cl	H	5-indazolyl
844	4-C1	H	6-indazolyl
845	4-Cl	H	2-imidazolyl
846	4-C1	H	3-isoxazoyl
847	4-C1	H	3-pyrazolyl
848	4-Cl	H	2-thiadiazolyl
849	4-Cl	H	2-thiazolyl
850	4-C1	H	5-Ac-4-Me-2-thiazolyl
851	4-C1	H	5-tetrazolyl
852	4-C1	Н	2-benzimidazolyl
853	4-Cl	Н	5-benzimidazolyl
854	4-Cl	H	2-benzothiazolyl
855	4-Cl	H	5-benzothiazolyl
856	4-Cl	H	2-benzoxazolyl
857	4-C1	Н	5-benzoxazolyl
858	4-C1	Н	1-adamantyl
859	4-C1	H	2-adamantyl
860	4-C1	H	i-Pr
861	4-C1	H	t-Bu
862	4-C1	Н	c-Hex
863	4-C1	H	CH2CH2OMe
864	4-C1	H	CH2CONH2
865	4-Cl	Н	CH2CO2Me
866	4-C1	Н	CH (CH2Ph) CO2Me
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867 4-C1 H Denzyl 868 4-C1 H benzyl 870 4-C1 H 2-(morpholin-1-yl)-Et 871 2-F Me Ph 871 2-F Me 3-CON-Ph 873 2-F Me 3-COM-Ph 874 2-F Me 3-COM-Ph 875 2-F Me 3-CONH2-Ph 876 2-F Me 3-CONH2-Ph 877 2-F Me 3-CONHE-Ph 877 2-F Me 3-SD2NH2-Ph 879 2-F Me 3-SCNHB-Ph 880 2-F Me 3-SO2NHB-Ph 881 2-F Me 3-SOM-Ph 882 2-F Me 3-SOM-Ph 885 2-F Me 3-SOM-Ph 886 2-F Me 3-CH2OH-Ph 888 2-F Me 3-CH2OH-Ph 889 2-F Me 3-CH2OH-Ph <th>0.66</th> <th>14 07</th> <th></th> <th></th>	0.66	14 07		
869 4-Cl H 2-(morpholin-1-y1)-Et 870 4-Cl H 2-(morpholin-1-y1)-Et 871 2-F Me 3-CM-Ph 873 2-F Me 3-COM-Ph 873 2-F Me 3-COM-Ph 874 2-F Me 3-COMH2-Ph 875 2-F Me 3-CONH2-Ph 876 2-F Me 3-CONHME-Ph 877 2-F Me 3-CONHME-Ph 877 2-F Me 3-SP-Ph 879 2-F Me 3-SDZNHD-Ph 880 2-F Me 3-SOZNHB-Ph 881 2-F Me 3-CY3-Ph 881 2-F Me 3-SOME-Ph 884 2-F Me 3-SOME-Ph 885 2-F Me 3-CH2OH-Ph 886 2-F Me 3-CH2OH-Ph 887 2-F Me 3-CH0HMC-Ph 889 2-F Me <td></td> <td></td> <td></td> <td></td>				
870 4-Cl H 2-(morpholin-1-yl)-Et 871 2-F Me Ph 872 2-F Me 3-CN-Ph 873 2-F Me 3-COMP-Ph 874 2-F Me 3-CONHA-Ph 875 2-F Me 3-CONHME-Ph 876 2-F Me 3-CONHME-Ph 877 2-F Me 3-CI-Ph 878 2-F Me 3-SO2NH2-Ph 880 2-F Me 3-SO2NH2-Ph 881 2-F Me 3-SO2NH2-Ph 881 2-F Me 3-SO2NH2-Ph 881 2-F Me 3-SOM-Ph 882 2-F Me 3-SOM-Ph 885 2-F Me 3-SOM-Ph 886 2-F Me 3-CHOHME-Ph 887 2-F Me 3-CHOHME-Ph 889 2-F Me 3-CHOHME-Ph 890 2-F Me				
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896 2-F Me 3-(1-piperidinyl)-Ph 897 2-F Me 3-(1-pyrrolidinyl)-Ph 898 2-F Me 3-(2-imidazolyl)-Ph 899 2-F Me 3-(1-imidazolyl)-Ph 900 2-F Me 3-(2-thiazolyl)-Ph 901 2-F Me 3-(3-pyrazolyl)-Ph 902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(2-pyridyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-CN-Ph 910 2-F Me 4-COM-Ph 911 2-F Me 4-COMHPh-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-CONHPh-Ph </td <td></td> <td></td> <td></td> <td></td>				
897 2-F Me 3-(1-pyrrolidinyl)-Ph 898 2-F Me 3-(2-imidazolyl)-Ph 899 2-F Me 3-(1-imidazolyl)-Ph 900 2-F Me 3-(2-thiazolyl)-Ph 901 2-F Me 3-(3-pyrazolyl)-Ph 902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(2-pyridyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COP-Ph 910 2-F Me 4-COM-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHPh-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph				
898 2-F Me 3-(2-imidazolyl)-Ph 899 2-F Me 3-(1-imidazolyl)-Ph 900 2-F Me 3-(2-thiazolyl)-Ph 901 2-F Me 3-(3-pyrazolyl)-Ph 902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(2-pyridyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-thienyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-CN-Ph 910 2-F Me 4-COMe-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHPh-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-CI-Ph				
899 2-F Me 3-(1-imidazolyl)-Ph 900 2-F Me 3-(2-thiazolyl)-Ph 901 2-F Me 3-(3-pyrazolyl)-Ph 902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(1-Me-5-tetrazolyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMe-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHPh-Ph 913 2-F Me 4-F-Ph 915 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-C1-Ph				3-(1-pyrroridinyr)-Pn
900 2-F Me 3-(2-thiazolyl)-Ph 901 2-F Me 3-(3-pyrazolyl)-Ph 902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(1-Me-5-tetrazolyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMe-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHPh-Ph 913 2-F Me 4-F-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				3-(2-1M1ddzO1y1)-Ph
901 2-F Me 3-(3-pyrazoly1)-Ph 902 2-F Me 3-(1-pyrazoly1)-Ph 903 2-F Me 3-(5-Me-1-tetrazoly1)-Ph 904 2-F Me 3-(1-Me-5-tetrazoly1)-Ph 905 2-F Me 3-(2-pyridy1)-Ph 906 2-F Me 3-(2-thieny1)-Ph 907 2-F Me 3-(2-furany1)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMH2-Ph 911 2-F Me 4-CONHMe-Ph 912 2-F Me 4-CONHPh-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
902 2-F Me 3-(1-pyrazolyl)-Ph 903 2-F Me 3-(5-Me-1-tetrazolyl)-Ph 904 2-F Me 3-(1-Me-5-tetrazolyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMHPh 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-F-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
903				3-(3-pyrazoly1)-Ph
904 2-F Me 3-(1-Me-5-tetrazolyl)-Ph 905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMHPh 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
905 2-F Me 3-(2-pyridyl)-Ph 906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COME-Ph 910 2-F Me 4-COME-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHME-Ph 913 2-F Me 4-F-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
906 2-F Me 3-(2-thienyl)-Ph 907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COME-Ph 910 2-F Me 4-COMP-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHME-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph				
907 2-F Me 3-(2-furanyl)-Ph 908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-COMe-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph				
908 2-F Me 4-CN-Ph 909 2-F Me 4-COMe-Ph 910 2-F Me 4-CO2Me-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
909 2-F Me 4-COMe-Ph 910 2-F Me 4-CO2Me-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
910 2-F Me 4-CO2Me-Ph 911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
911 2-F Me 4-CONH2-Ph 912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-C1-Ph 916 2-F Me 4-Br-Ph				
912 2-F Me 4-CONHMe-Ph 913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph			Me	
913 2-F Me 4-CONHPh-Ph 914 2-F Me 4-F-Ph 915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph				
914 2-F Me 4-F-Ph 915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph			Me	4-CONHMe-Ph
915 2-F Me 4-Cl-Ph 916 2-F Me 4-Br-Ph		2-F	Me	4-CONHPh-Ph
916 2-F Me 4-Br-Ph	914	2-F	Me	4-F-Ph
916 2-F Me 4-Br-Ph	915	2-F	Me	4-Cl-Ph
	916	2-F		
31/12-F Me $4-SO2NH2-Ph$	917	2-F	Me	4-SO2NH2-Ph

010		36-	4 COONTR. DI
918	2-F	Me	4-SO2NHMe-Ph
919	2-F	Me	4-CF3-Ph
920	2-F	Me	4-OMe-Ph
921	2-F	Me	4-SMe-Ph
922	2-F	Me	4-SOMe-Ph
923	2-F	Me	4-SO2Me-Ph
924	2-F	Me	4-OH-Ph
925	2-F	Me	4-CH2OH-Ph
926	2-F	Me	4-CHOHMe-Ph
927	2-F	Me	4-COH (Me) 2-Ph
928	2-F	Me	4-Me-Ph
929	2-F	Me	4-Et-Ph
930	2-F	Me	4-iPr-Ph
931	2-F	Me	4-tBu-Ph
932	2-F	Me	4-CH2CO2Me-Ph
933	2-F	Me	4-(1-piperidinyl)-Ph
934	2-F	Me	4-(1-pyrrolidinyl)-Ph
935	2-F	Me	4-(2-imidazolyl)-Ph
936	2-F	Me	4-(1-imidazolyl)-Ph
937	2-F	Me	4-(2-thiazolyl)-Ph
938	2-F	Me	4-(3-pyrazolyl)-Ph
939	2-F	Me	4-(1-pyrazolyl)-Ph
940	2-F	Me	4-(5-Me-1-tetrazolyl)-Ph
941	2-F	Me	4-(1-Me-5-tetrazolyl)-Ph
942	2-F	Me	4-(2-pyridyl)-Ph
943	2-F	Me	4-(2-thienyl)-Ph
944	2-F	Me	4-(2-furanyl)-Ph
945	2-F	Me	2-CN-Ph
946	2-F	Me	2-COMe-Ph
947	2-F	Me	2-CO2Me-Ph
948	2-F	Me	2-CONH2-Ph
949	2-F	Me	2-CONHMe-Ph
950	2-F	Me	2-F-Ph
951	2-F	Me	2-C1-Ph
952	2-F	Me	2-Br-Ph
953	2-F	Me	2-SO2NH2-Ph
954	2-F	Me	2-SO2NHMe-Ph
955	2-F	Me	2-CF3-Ph
956	2-F	Me	2-OMe-Ph
957	2-F	Me	2-SMe-Ph
958	2-F	Me	2-SOMe-Ph
959	2-F	Me	2-SO2Me-Ph
960	2-F	Me	2-OH-Ph
961	2-F	Me	2-CH2OH-Ph
962	2-F	Me	2-CHOHMe-Ph
963	2-F	Me	2-COH (Me) 2-Ph
964	2-F	Me	2-Me-Ph
965	2-F	Me	2-He-Fh 2-Et-Ph
966	2-F	Me	2-iPr-Ph
967	2-F	Me	2-tBu-Ph
968			2-CBU-FII 2-CH2CO2Me-Ph
700	2-F	Me	Z-CHZCOZME-PII

969	1 2 12	Mo	2 /1 -ini 3:1\ Db
970	2-F	Me	2-(1-piperidinyl)-Ph
	2-F	Me	2-(1-pyrrolidinyl)-Ph
971	2-F	Me	2-(2-imidazolyl)-Ph
972	2-F	Me	2-(1-imidazolyl)-Ph
973	2-F	Me	2-(2-thiazolyl)-Ph
974	2-F	Me	2-(3-pyrazolyl)-Ph
975	2-F	Me	2-(1-pyrazolyl)-Ph
976	2-F	Me	2-(5-Me-1-tetrazolyl)-Ph
977	2-F	Me	2-(1-Me-5-tetrazolyl)-Ph
978	2-F	Me	2-(2-pyridyl)-Ph
979	2-F	Me	2-(2-thienyl)-Ph
980	2-F	Me	2-(2-furanyl)-Ph
981	2-F	Me	2,4-diF-Ph
982	2-F	Me	2,5-diF-Ph
983	2-F	Me	2,6-diF-Ph
984	2-F	Me	3,4-diF-Ph
985	2-F	Me	3,5-diF-Ph
986	2-F	Me	2,4-diCl-Ph
987	2-F	Me	2,5-diCl-Ph
988	2-F	Me	2,6-diCl-Ph
989	2-F	Me	3,4-diCl-Ph
990	2-F	Me	3,5-diCl-Ph
991	2-F	Me	3,4-diCF3-Ph
992	2-F	Me	3,5-diCF3-Ph
993	2-F	Me	5-C1-2-MeO-Ph
994	2-F	Me	5-Cl-2-Me-Ph
995	2-F	Me	2-F-5-Me-Ph
996	2-F	Me	3-F-5-morpholino-Ph
997	2-F	Me	3,4-OCH2O-Ph
998	2-F	Me	3,4-OCH2CH2O-Ph
999	2-F	Me	2-MeO-5-CONH2-Ph
1000	2-F	. Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1001	2-F	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1002	2-F	Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1003	2-F	Me	1-naphthyl
1004	2-F	Me	2-naphthyl
1005	2-F	Me	2-thienyl
1006	2-F	Me	3-thienyl
1007	2-F	Me	2-furanyl
1008	2-F	Me	3-furanyl
1009	2-F	Me	2-pyridyl
1010	2-F	Me	3-pyridyl
1011	2-F	Me	4-pyridyl
1012	2-F	Me	2-indolyl
1013	2-F	Me	3-indolyl
1014	2-F	Me	5-indolyl
1015	2-F	Me	6-indolyl
1016	2-F	Ме	3-indazolyl
1017	2-F		5-indazolyl 5-indazolyl
1017	2-F 2-F	Me	6-indazoly1
1018		Me	
TOT3	2-F	Me	2-imidazolyl

1020	2-F	Me	3-isoxazoyl
1021	2-F	Me	3-pyrazolyl
1022	2-F	Me	2-thiadiazolyl
1023	2-F	Me	2-thiazolyl
1024	2-F	Me	5-Ac-4-Me-2-thiazolyl
1025	2-F	Me	5-tetrazolyl
1026	2-F	Me	2-benzimidazolyl
1027	2-F	Me	5-benzimidazolyl
1028	2-F	Me	2-benzothiazolyl
1029	2-F	Me	5-benzothiazolyl
1030	2-F	Me	2-benzoxazolyl
1031	2-F	Me	5-benzoxazolyl
1032	2-F	Me	1-adamantyl
1033	2-F	Me	2-adamantyl
1034	2-F	Me	i-Pr
1035	2-F	Me	t-Bu .
1036	2-F	Me	c-Hex
1037	2-F	Me	CH2CH2OMe
1038	2-F	Me	CH2CONH2
1039	2-F	Me	CH2CO2Me
1040	2-F	Me	CH(CH2Ph)CO2Me
1041	2-F	Me	CH2CH2NMe2
1042	2-F	Me	benzyl
1043	2-F	Me	phenethyl
1044	2-F	Me	2-(morpholin-1-yl)-Et
1045	3-F	Me	Ph
1046	3-F	Me	3-CN-Ph
1047	3-F	Me	3-COMe-Ph
1048	3-F	Me	3-CO2Me-Ph
1049	3-F	Me	3-CONH2-Ph
1050	3-F	Me	3-CONHMe-Ph
1051	3-F	Me	3-F-Ph
1052	3-F	Me	3-Cl-Ph
1053	3-F	Me	3-Br-Ph
1054	3-F	Me	3-SO2NH2-Ph
1055	3-F	Me	3-SO2NHMe-Ph
1056	3-F	Me	3-CF3-Ph
1057	3-F	Me	3-OMe-Ph
1058	3-F	Me	3-SMe-Ph
1059	3-F	Me	3-SOMe-Ph
1060	3-F	Ме	3-S02Me-Ph
1061	3-F	Me	3-OH-Ph
1062	3-F	Мe	3-CH2OH-Ph
1063	3-F	Me	3-CHOHMe-Ph
1064	3-F	Me	3-COH(Me)2-Ph
1065	3-F	Me	3-Me-Ph
1066	3-F	Me	3-Et-Ph
1067	3-F	Me	3-iPr-Ph
1068	3-F	Me	3-tBu-Ph
1069	3-F	Me	3-CH2CO2Me-Ph
1070	3-F	Me	3-(1-piperidinyl)-Ph
		 '	

F		,	
1071	3-F	Me	3-(1-pyrrolidinyl)-Ph
1072	3-F	Me	3-(2-imidazolyl)-Ph
1073	3-F	Me	3-(1-imidazoly1)-Ph
1074	3-F	Me	3-(2-thiazoly1)-Ph
1075	3-F	Me	3-(3-pyrazolyl)-Ph
1076	3-F	Me	3-(1-pyrazolyl)-Ph
1077	3-F	Me	3-(5-Me-1-tetrazolyl)-Ph
1078	3-F	Me	3-(1-Me-5-tetrazolyl)-Ph
1079	3-F	Me	3-(2-pyridyl)-Ph
1080	3-F	Me	3-(2-thienyl)-Ph
1081	3-F	Me	3-(2-furanyl)-Ph
1082	3-F	Me	4-CN-Ph
1083	3-F	Me	4-COMe-Ph
1084	3-F	Me	4-CO2Me-Ph
1085	3-F	Me	4-CONH2-Ph
1086	3-F	Me	4-CONHMe-Ph
1087	3-F	Me	4-CONHPh-Ph
1088	3-F	Me	4-F-Ph
1089	3-F	Me	4-C1-Ph
1090	3-F	Me	4-Br-Ph
1091	3-F	Me	4-SO2NH2-Ph
1092	3-F	Me	4-SO2NHMe-Ph
1093	3-F	Me	4-CF3-Ph
1094	3-F	Me	4-OMe-Ph
1095	3-F	Me	4-SMe-Ph
1096	3-F	Me	4-SOMe-Ph
1097	3-F	Me	4-S02Me-Ph
1098	3-F	Me	4-OH-Ph
1099	3-F	Me	4-CH2OH-Ph
1100	3-F	Me	4-CHOHMe-Ph
1101	3-F	Me	4-COH (Me) 2-Ph
1102	3-F	Me	4-Me-Ph
1103	3-F	Me	4-Et-Ph
1104	3-F	Me	4-iPr-Ph
1105	3-F	Me	4-tBu-Ph
1106	3-F	Me	4-CH2CO2Me-Ph
1107	3-F	Me	4-(1-piperidinyl)-Ph
1108	3-F	Me	4-(1-pyrrolidinyl)-Ph
1109	3-F	Me	4-(2-imidazolyl)-Ph
1110	3-F	Me	4-(1-imidazoly1)-Ph
1111	3-F	Me	4-(2-thiazolyl)-Ph
1112	3-F	Me	4-(3-pyrazolyl)-Ph
1113	3-F	Me	4-(1-pyrazolyl)-Ph
1114	3-F	Me	4-(5-Me-1-tetrazolyl)-Ph
1115	3-F	Me	4-(1-Me-5-tetrazolyl)-Ph
1116	3-F	Me	4-(1-Me-5-cetrazory1)-Ph 4-(2-pyridy1)-Ph
1117	3-F	Me	4-(2-bylidyl)-Ph
1118	3-F	Me Me	4-(2-furany1)-Ph
1119	3-F	Ме	2-CN-Ph
1120	3-F	Ме	2-CN-PH 2-COMe-Ph
1121	3-F		· · · · · · · · · · · · · · · · · · ·
<u> </u>	シード	Me	2-CO2Me-Ph

		T	
1122	3-F	Me	2-CONH2-Ph
1123	3-F	Me	2-CONHMe-Ph
1124	3-F	Me	2-F-Ph
1125	3-F	Me	2-C1-Ph
1126	3-F_	Me	2-Br-Ph
1127	3-F	Me	2-SO2NH2-Ph
1128	3-F	Me	2-SO2NHMe-Ph
1129	3-F	Me	2-CF3-Ph
1130	3-F	Me	2-OMe-Ph
1131	3-F	Me	2-SMe-Ph
1132	3-F	Me	2-SOMe-Ph
1133	3-F	Me	2-SO2Me-Ph
1134	3-F	Me	2-OH-Ph
1135	3-F	Me	2-CH2OH-Ph
1136	3-F	Me	2-CHOHMe-Ph
1137	3-F	Me	2-COH (Me) 2-Ph
1138	3-F	Me	2-Me-Ph
1139	3-F	Me	2-Et-Ph
1140	3-F	Me	2-iPr-Ph
1141	3-F	Me	2-tBu-Ph
1142	3-F	Me	2-CH2CO2Me-Ph
1143	3-F	Me	2-(1-piperidinyl)-Ph
1144	3-F	Me	2-(1-pyrrolidinyl)-Ph
1145	3-F	Me	2-(2-imidazolyl)-Ph
1146	3-F	Me	2-(1-imidazolyl)-Ph
1147	3-F	Me	2-(2-thiazolyl)-Ph
1148	3-F	Me	2-(3-pyrazolyl)-Ph
1149	3-F	Me	2-(1-pyrazolyl)-Ph
1150	3-F	Me	2-(5-Me-1-tetrazolyl)-Ph
1151	3-F	Me	2-(1-Me-5-tetrazolyl)-Ph
1152	3-F	Me	2-(2-pyridyl)-Ph
1153	3-F	Me	2-(2-thienyl)-Ph
1154	3-F	Me	2-(2-furany1)-Ph
1155	3-F	Me	2,4-diF-Ph
1156	3-F	Me	2,5-diF-Ph
1157	3-F	Me	2,6-diF-Ph
1158	3-F	Me	3,4-diF-Ph
1159	3-F	Me	3,5-diF-Ph
1160	3-F	Me	2,4-diCl-Ph
1161	3-F	Me	2,5-diCl-Ph
1162	3-F	Me	2,6-diCl-Ph
1163	3-F	Me	3,4-diCl-Ph
1164	3-F	Me	3,5-diCl-Ph
1165	3-F	Me	3,4-diCF3-Ph
1166	3-F	Me	3,5-diCF3-Ph
1167	3-F	Me	5-C1-2-MeO-Ph
1168	3-F	Me	5-Cl-2-Me-Ph
1169	3-F	Me	2-F-5-Me-Ph
1170	3-F	Me	3-F-5-morpholino-Ph
1171	3-F	Me	3,4-OCH2O-Ph
1172	3-F	Me	3,4-OCH2CH2O-Ph
44/4		1,16	J, 4-0CH2CH2O-FH

1177	2 77	3//-	2 Mag E CONTIO De
1173	3-F	Me	2-MeO-5-CONH2-Ph
1174	3-F	Me	2-MeO-4-(1-Me-5-tetrazoly1)-Ph
1175	3-F	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1176	3-F	Me	3-CONH2-5-(1-Me-5-tetrazolyl)-Ph
1177	3-F	Me	1-naphthyl
1178	3-F	Me	2-naphthyl
1179	3-F	Me	2-thienyl
1180	3-F	Me	3-thienyl
1181	3-F	Me	2-furanyl
1182	3-F	Me	3-furanyl
1183	3-F	Me	2-pyridyl
1184	3-F	Me	3-pyridyl
1185	3-F	Me	4-pyridyl
1186	3-F	Me	2-indolyl
1187	3-F	Me	3-indolyl
1188	3-F	Me	5-indolyl
1189	3-F	Me	6-indolyl
1190	3-F	Me	3-indazolyl
1191	3-F	Me	5-indazolyl
1192	3-F	Me	6-indazolyl
1193	3-F	Me	2-imidazolyl
1194	3-F	Me	3-isoxazoyl
1195	3-F	Me	3-pyrazolyl
1196	3-F	Me	2-thiadiazolyl
1197	3-F	Me	2-thiazolyl
1198	3-F	Me	5-Ac-4-Me-2-thiazolyl
1199	3-F	Me	5-tetrazolyl
1200	3-F	Me	2-benzimidazolyl
1201	3-F	Me	5-benzimidazolyl
1202	3-F	Me	2-benzothiazolyl
1203	3-F	Me	5-benzothiazolyl
1204	3-F	Me	2-benzoxazolyl
1205	3-F	Me	5-benzoxazolyl
1206	3-F	Me	1-adamantyl
1207	3-F	Me	2-adamantyl
1208	3-F	Me	i-Pr
1209	3-F	Me	t-Bu
1210	3-F	Me	c-Hex
1211	3-F	Me	CH2CH2OMe
1212	3-F	Me Me	CH2CH2OME CH2CONH2
1213	3-F		CH2CO2Me
		Me	CH2CO2Me CH(CH2Ph)CO2Me
1214	3-F	Me	
1215	3-F	Me	CH2CH2NMe2
1216	3-F	Me	benzyl
1217	3-F	Me	phenethyl
1218	3-F	Me	2-(morpholin-1-yl)-Et
1219	4-F	Me	Ph
1220	4-F	Me	3-CN-Ph
1221	4-F	Me	3-COMe-Ph
1222	4-F	Me	3-CO2Me-Ph
1223	4-F	Me	3-CONH2-Ph

1224	4-F	Ma	2 CONTING Db
		Me_	3-CONHMe-Ph
1225	4-F	Me	3-F-Ph
1226	4-F	Me	3-C1-Ph
1227	4-F	Me	3-Br-Ph
1228	4-F	Me	3-SO2NH2-Ph
1229	4-F	Me	3-SO2NHMe-Ph
1230	4-F	Me	3-CF3-Ph
1231	4-F	Me	3-OMe-Ph
1232	4-F	Me	3-SMe-Ph
1233	4-F	Me	3-SOMe-Ph
1234	4-F	Me	3-SO2Me-Ph
1235	4-F	Me	3-OH-Ph
1236	4-F	Me	3-CH2OH-Ph
1237	4-F	Me	3-CHOHMe-Ph
1238	4-F	Me	3-COH (Me) 2-Ph
1239	4-F	Me	3-Me-Ph
1240	4-F	Me	3-He-Ph
1241	4-F		3-EC-Ph 3-iPr-Ph
		Me	
1242	4-F	Me ·	3-tBu-Ph
1243	4-F	Me	3-CH2CO2Me-Ph
1244	4-F	Me	3-(1-piperidinyl)-Ph
1245	4-F	Me	3-(1-pyrrolidinyl)-Ph
1246	4-F	Me	3-(2-imidazolyl)-Ph
1247	4-F	Me	3-(1-imidazolyl)-Ph
1248	4-F	Me	3-(2-thiazolyl)-Ph
1249	4-F	Me	3-(3-pyrazoly1)-Ph
1250	4-F	Me	3-(1-pyrazolyl)-Ph
1251	4-F	Me	3-(5-Me-1-tetrazolyl)-Ph
1252	4-F	Me	3-(1-Me-5-tetrazoly1)-Ph
1253	4-F	Me	3-(2-pyridyl)-Ph
1254	4-F	Мe	3-(2-thienyl)-Ph
1255	4-F	Me	3-(2-furanyl)-Ph
1256	4-F	Me	4-CN-Ph
1257	4-F	Me	4-COMe-Ph
1258	4-F	Me	4-CO2Me-Ph
1259	4-F	· Me	4-CONH2-Ph
1260	4-F	Me	4-CONHMe-Ph
1261	4-F	Me	4-CONHPh-Ph
1262	4-F	Me	4-F-Ph
1263	4-F	Me	4-Cl-Ph
1264	4-F	Me	4-Br-Ph
1265	4-F	Me	4-SO2NH2-Ph
1266	4-F	Me	
1267			4-SO2NHMe-Ph
	4-F	Me	4-CF3-Ph
1268	4-F	Me	4-OMe-Ph
1269	4-F.	Me	4-SMe-Ph
1270	4-F	Me	4-SOMe-Ph
1271	4-F	Me	4-SO2Me-Ph
1272	4-F	Me	4-OH-Ph
1273	4-F	Me	4-CH2OH-Ph
1274	4-F	Me	4-CHOHMe-Ph

1075	T 4 TO	Mo	4 COTT (Ma) 2 Dia
1275 1276	4-F	Me	4-COH (Me) 2-Ph
	4-F	Me	4-Me-Ph
1277	4-F	Me	4-Et-Ph
1278	4-F	Me	4-iPr-Ph
1279	4-F	Me	4-tBu-Ph
1280	4-F	Me	4-CH2CO2Me-Ph
1281	4-F	Me	4-(1-piperidinyl)-Ph
1282	4-F	Me	4-(1-pyrrolidinyl)-Ph
1283	4-F	Me	4-(2-imidazolyl)-Ph
1284	4-F	Me	4-(1-imidazolyl)-Ph
1285	4-F	Me	4-(2-thiazolyl)-Ph
1286	4-F	Me	4-(3-pyrazoly1)-Ph
1287	4-F	Me	4-(1-pyrazolyl)-Ph
1288	4-F	Me	4-(5-Me-1-tetrazolyl)-Ph
1289	4-F	Me	4-(1-Me-5-tetrazolyl)-Ph
1290	4-F	Me	4-(2-pyridyl)-Ph
1291	4-F	Me	4-(2-thienyl)-Ph
1292	4-F	Me	4-(2-furanyl)-Ph
1293	4-F	Me	2-CN-Ph
1294	4-F	Me	2-COMe-Ph
1295	4-F	Me	2-CO2Me-Ph
1296	4-F	Me	2-CONH2-Ph
1297	4-F	Me	2-CONHMe-Ph
1298	4-F	Me	2-F-Ph
1299	4-F	Me	2-C1-Ph
1300	4-F	Me	2-Br-Ph
1301	4-F	Me	2-SO2NH2-Ph
1302	4-F	Me	2-SO2NHMe-Ph
1303	4-F	Me	2-CF3-Ph
1304	4-F	Me	2-OMe-Ph
1305	4-F	Me	2-SMe-Ph
1306	4-F	Me	2-SOMe-Ph
1307	4-F	Me	2-S02Me-Ph
1308	4-F	Me	2-OH-Ph
1309	4-F	Me	2-CH2OH-Ph
1310	4-F	Me	2-CH2OH-FH 2-CHOHMe-Ph
1311	4-F	Me	2-COH (Me) 2-Ph
1312	4-F	Me	2-Me-Ph
1313	4-F	Me	2-He-FH 2-Et-Ph
1314	4-F	Me Me	2-iPr-Ph
1315	4-F	Me	2-1F1-FH 2-tBu-Ph
1316	4-F		2-CH2CO2Me-Ph
1317		Me	
	4-F	Me	2-(1-piperidiny1)-Ph
1318	4-F	Me	2-(1-pyrrolidiny1)-Ph
1319	4-F	Me_	2-(2-imidazolyl)-Ph
1320	4-F	Me	2-(1-imidazolyl)-Ph
1321	4-F	Me	2-(2-thiazoly1)-Ph
1322	4-F	Me	2-(3-pyrazolyl)-Ph
1323	4-F	Me	2-(1-pyrazolyl)-Ph
1324	4-F	Me	2-(5-Me-1-tetrazoly1)-Ph
1325	4-F	Me	2-(1-Me-5-tetrazoly1)-Ph

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1326	4-F	Me	2-(2-pyridyl)-Ph
1327	4-F	Me	2-(2-thienyl)-Ph
1328	4-F	Me	2-(2-furanyl)-Ph
1329	4-F	Me	2,4-diF-Ph
1330	4-F	Me	2,5-diF-Ph
1331	4-F	Me	2,6-diF-Ph
1332	4-F	Me	3,4-diF-Ph
1333	4-F	Me	3,5-diF-Ph
1334	4-F	Me	2,4-diCl-Ph
1335	4-F	Me	2,5-diCl-Ph
1336	4-F	Me	2,6-diCl-Ph
1337	4-F	Me	3,4-diCl-Ph
1338	4-F	Me	3,5-diCl-Ph
1339	4-F	Me	3,4-diCF3-Ph
1340	4-F	Me	3,5-diCF3-Ph
1341	4-F	Me	5-C1-2-MeO-Ph
1342	4-F	Me	5-C1-2-Me-Ph
1343	4-F	Me	2-F-5-Me-Ph
1344	4-F	Me	3-F-5-morpholino-Ph
1345	4-F	Me	3,4-OCH2O-Ph
1346	4-F	Me	3,4-OCH2CH2O-Ph
1347	4-F	Me	2-MeO-5-CONH2-Ph
1348	4-F	Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1349	4-F	Me	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
1350	4-F	Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
1351	4-F	Me	1-naphthyl
1352	4-F	Me	2-naphthyl
1353	4-F	Me	2-thienyl
1354	4-F	Me	3-thienyl
1355	4-F	Me	2-furanyl
1356	4-F	Me	3-furanyl
1357	4-F	Me	2-pyridyl
1358	4-F	Me	3-pyridyl
1359	4-F	Me	4-pyridyl
1360	4-F	Me	2-indolyl
1361	4-F	Me	3-indolyl
1362	4-F	Me	5-indolyl
1363	4-F	Me	6-indolyl
1364	4-F	Me	3-indazolyl
1365	4-F	Me	5-indazolyl
1366	4-F	Me	6-indazolyl
1367	4-F	Me	2-imidazolyl
1368	4-F	Me	3-isoxazoyl
1369	4-F	Me	3-pyrazolyl
1370	4-F	Me	2-thiadiazolyl
1371	4-F	Me	2-thiazolyl
1372	4-F	Me	5-Ac-4-Me-2-thiazolyl
1373	4-F	Me	5-tetrazolyl
1374	4-F	Me	2-benzimidazolyl
1375	4-F	Me	5-benzimidazolyl
1376	4-F	Me	2-benzothiazolyl
13,0	<u> 4</u> − Γ.	THE	7 Deligochitagotàt

1277	A 12	1/0	F 1 1-1-1
1377 1378	4-F	Me	5-benzothiazolyl
1378	4-F	Me	2-benzoxazolyl
	4-F	Me	5-benzoxazolyl
1380	4-F	Me	1-adamantyl
1381	4-F	Me	2-adamantyl
1382	4-F	Me	i-Pr
1383	4-F	Me	t-Bu
1384	4-F	Me	c-Hex
1385	4-F	Me_	CH2CH2OMe
1386	4-F	Me	CH2CONH2
1387	4-F	Me	CH2CO2Me
1388	4-F	Me	CH (CH2Ph) CO2Me
1389	4-F	Me	CH2CH2NMe2
1390	4-F	Me	benzyl
1391	4-F	Me	phenethyl
1392	4-F	Me	2-(morpholin-1-yl)-Et
1393	3-C1	Me	Ph
1394	3-C1	Me	3-CN-Ph
1395	3-C1	Me	3-COMe-Ph
1396	3-C1	Me	3-CO2Me-Ph
1397	3-C1	Me	3-CONH2-Ph
1398	3-C1	Me	3-CONHMe-Ph
1399	3-Cl	Me	3-F-Ph
1400	3-C1	Me	3-C1-Ph
1401	3-C1	Me	3-Br-Ph
1402	3-C1	Me	3-SO2NH2-Ph
1403	3-C1	Me	3-SO2NHMe-Ph
1404	3-C1	Me	3-CF3-Ph
1405	3-C1	Me	3-OMe-Ph
1406	3-C1	Me	3-SMe-Ph
1407	3-C1	Me	3-SOMe-Ph
1408	3-C1	Me	3-SO2Me-Ph
1409	3-C1	Me	3-OH-Ph
1410	3-C1	Me	3-CH2OH-Ph
1411	3-C1	Me	3-CHOHMe-Ph
1412	3-C1	Me	3-COH (Me) 2-Ph
1413	3-C1	Me	3-Me-Ph
1414	3-C1	Me	3-Et-Ph
1415	3-C1	Me	3-iPr-Ph
1416	3-C1	Me	3-tBu-Ph
1417	3-C1	Me	3-CH2CO2Me-Ph
1418	3-C1	Me	3-(1-piperidinyl)-Ph
1419	3-C1	Me	3-(1-pyrrolidinyl)-Ph
1420	3-C1	Me	3-(2-imidazolyl)-Ph
1421	3-C1	Me	3-(1-imidazoly1)-Ph
1422	3-C1	Me	3-(1-Imidazoly1)-Ph 3-(2-thiazoly1)-Ph
1423	3-C1	Me	
1424	3-C1	Me	3-(3-pyrazolyl)-Ph
1424			3-(1-pyrazolyl)-Ph
1425	3-C1	Me	3-(5-Me-1-tetrazoly1)-Ph
1426	3-C1	Me	3-(1-Me-5-tetrazoly1)-Ph
1441	3-C1	Me	3-(2-pyridyl)-Ph

			
1428	3-C1	Me	3-(2-thienyl)-Ph
1429	3-C1	Me	3-(2-furanyl)-Ph
1430	3-C1	Me	4-CN-Ph
1431	3-C1	Me	4-COMe-Ph
1432	3-C1	Me	4-CO2Me-Ph
1433	3-C1	Me	4-CONH2-Ph
1434	3-C1	Me	4-CONHMe-Ph
1435	3-C1	Me	4-CONHPh-Ph
1436	3-C1	Me	4-F-Ph
1437	3-C1	Me	4-Cl-Ph
1438	3-C1	Me	4-Br-Ph
1439	3-C1	Me	4-SO2NH2-Ph
1440	3-C1	Me	4-SO2NHMe-Ph
1441	3-C1	Me	4-CF3-Ph
1442	3-C1	Me	4-OMe-Ph
1443	3-C1	Me	4-SMe-Ph
1444	3-C1	Me	4-SOMe-Ph
1445	3-C1	Me	4-SO2Me-Ph
1446	3-C1	Me	4-OH-Ph
1447	3-C1	Me	4-CH2OH-Ph
1448	3-C1	Me	4-CHOHMe-Ph
1449	3-C1	Me	4-COH (Me) 2-Ph
1450	3-C1	Me	4-Me-Ph
1451	3-C1	Me	4-Et-Ph
1452	3-C1	Me	4-iPr-Ph
1453	3-C1	Me	4-tBu-Ph
1454	3-C1	Me	4-CH2CO2Me-Ph
1455	3-C1	Me	4-(1-piperidinyl)-Ph
1456	3-C1	Me	4-(1-pyrrolidinyl)-Ph
1457	3-C1	Me	4-(2-imidazolyl)-Ph
1458	3-C1	Me	4-(1-imidazolyl)-Ph
1459	3-C1	Me	4-(2-thiazolyl)-Ph
1460	3-C1	Me	4-(3-pyrazolyl)-Ph
1461	3-C1	Me	4-(1-pyrazolyl)-Ph
1462	3-C1	Me	4-(5-Me-1-tetrazolyl)-Ph
1463	3-C1	Me	4-(1-Me-5-tetrazolyl)-Ph
1464	3-C1	Me	4-(2-pyridyl)-Ph
1465	3-C1	Me	4-(2-thienyl)-Ph
1466	3-C1	Me	4-(2-furanyl)-Ph
1467	3-C1	Мe	2-CN-Ph
1468	3-C1	Me	2-COMe-Ph
1469	3-C1	Me	2-CO2Me-Ph
1470	3-C1	Me	2-CONH2-Ph
1471	3-C1	Me	2-CONHMe-Ph
1472	3-C1	Me	2-F-Ph
1473	3-C1	Me	2-C1-Ph
1474	3-C1	Me	2-Br-Ph
1475	3-C1	Me	2-S02NH2-Ph
1476	3-C1	Me	2-SO2NHMe-Ph
1477	3-C1	Me	2-CF3-Ph
1478	3-C1	Me	2-OMe-Ph
	<u> </u>		2 040 111

1479	3-C1	Mo	2 CMc Db
		Me	2-SMe-Ph
1480	3-C1	Me	2-SOMe-Ph
1481	3-C1	Me	2-SO2Me-Ph
1482	3-C1	Me	2-OH-Ph
1483	3-C1	Me	2-CH2OH-Ph
1484	3-C1	Me	2-CHOHMe-Ph
1485	3-C1	Me	2-COH (Me) 2-Ph
1486	3-C1	Me	2-Me-Ph
1487	3-C1	Me	2-Et-Ph
1488	3-C1	Me	2-iPr-Ph
1489	3-C1	Me	2-tBu-Ph
1490	3-Cl	Me	2-CH2CO2Me-Ph
1491	3-Cl	Me	2-(1-piperidinyl)-Ph
1492	3-C1	Me	2-(1-pyrrolidinyl)-Ph
1493	3-C1	Me	2-(2-imidazolyl)-Ph
1494	3-C1	Me	2-(1-imidazolyl)-Ph
1495	3-C1	Me	2-(2-thiazolyl)-Ph
1496	3-C1	Me	2-(3-pyrazolyl)-Ph
1497	3-C1	Me	2-(1-pyrazolyl)-Ph
1498	3-C1	Me	2-(5-Me-1-tetrazolyl)-Ph
1499	3-C1	Me	2-(1-Me-5-tetrazolyl)-Ph
1500	3-C1	Me	2-(2-pyridyl)-Ph
1501	3-C1	Me	2-(2-thienyl)-Ph
1502	3-C1	Me	2-(2-furany1)-Ph
1503	3-C1	Me	2,4-diF-Ph
1504	3-Cl	Me	2,5-diF-Ph
1505	3-C1	Me	2,6-diF-Ph
1506	3-C1	Me	3,4-diF-Ph
1507	3-C1	Мe	3,5-diF-Ph
1508	3-C1	Me	2,4-diCl-Ph
1509	3-C1	Me	2,5-diCl-Ph
1510	3-C1	Me	2,6-diCl-Ph
1511	3-C1	Me	3,4-diCl-Ph
1512	3-C1	Me	3,5-diCl-Ph
1513	3-C1	Me	3,4-diCF3-Ph
1514	3-C1	Me	3,5-diCF3-Ph
1515	3-C1	Me	5-C1-2-MeO-Ph
1516	3-Cl	Me	5-Cl-2-Me-Ph
1517	3-Cl	Me	2-F-5-Me-Ph
1518	3-C1	Me	3-F-5-morpholino-Ph
1519	3-C1	Me	3,4-OCH2O-Ph
1520	3-C1	Me	3,4-OCH2CH2O-Ph
1521	3-C1	Me	2-MeO-5-CONH2-Ph
1522	3-C1	Me	2-MeO-4-(1-Me-5-tetrazolyl)-Ph
1523	3-C1	Me	2-MeO-5-(1-Me-5-tetrazolyl)-Ph
1524	3-C1	Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
1525	3-C1	Me	1-naphthyl
1526	3-C1	Me	2-naphthyl
1527	3-C1	Me	2-thienyl
1528	3-C1	Me	3-thienyl
1529	3-C1	Me	2-furanyl
1763	1 - CT	IJE	Z-Lulally1

1530	12 67	36-	
1530	3-Cl	Me	3-furanyl
1531	3-C1	Me	2-pyridyl
1532	3-C1	Me	3-pyridyl
1533	3-C1	Me	4-pyridyl
1534	3-C1	Me	2-indolyl
1535	3-C1	Me	3-indolyl
1536	3-C1	Me	5-indolyl
1537	3-C1	Me	6-indolyl
1538	3-C1	Me	3-indazolyl
1539	3-C1	Me	5-indazolyl
1540	3-C1	Me	6-indazolyl
1541	3-C1	Me	2-imidazolyl
1542	3-C1	Me	3-isoxazoyl
1543	3-C1	Me	3-pyrazolyl
1544	3-C1	Me	2-thiadiazolyl
1545	3-C1	Me	2-thiazolyl
1546	3-C1	Me	5-Ac-4-Me-2-thiazolyl
1547	3-C1	Me	5-tetrazolyl
1548	3-C1	Me	2-benzimidazolyl
1549	3-C1	Me	5-benzimidazolyl
1550	3-C1	Me	2-benzothiazolyl
1551	3-C1	Me	5-benzothiazolyl
1552	3-C1	Me	2-benzoxazolyl
1553	3-C1	Me	5-benzoxazolyl
1554	3-C1	Me	
1555	3-C1	Ме	1-adamantyl 2-adamantyl
1556	3-C1	Me	
1557	3-C1	Me Me	i-Pr
1558	3-C1	Ме	t-Bu c-Hex
1559	3-C1	Me	<u> </u>
1560	3-C1	Me	CH2CH2OMe
1561	3-C1	Ме	CH2CONH2
1562	3-C1		CH2CO2Me
1563		Me	CH (CH2Ph) CO2Me
	3-C1	Me	CH2CH2NMe2
1564	3-C1	Me	benzyl
1565	3-C1	Me	phenethyl
1566	3-C1	Me	2-(morpholin-1-yl)-Et
1567	4-C1	Me	Ph
1568	4-C1	Me	3-CN-Ph
1569	4-C1	Me	3-COMe-Ph
1570	4-C1	Me	3-CO2Me-Ph
1571	4-C1	Me	3-CONH2-Ph
1572	4-Cl	Me	3-CONHMe-Ph
1573	4-C1	Me_	3-F-Ph
1574	4-Cl	Me	3-Cl-Ph
1575	4-C1	Me	3-Br-Ph
1576	4-C1	Me	3-SO2NH2-Ph
1577	4-Cl	Me	3-SO2NHMe-Ph
1578	4-C1	Me	3-CF3-Ph
1579	4-C1	Me	3-OMe-Ph
1580	4-C1	Me	3-SMe-Ph
		-	

			
1581	4-C1	Me	3-SOMe-Ph
1582	4-C1	Me	3-SO2Me-Ph
1583	4-Cl	Me	3-OH-Ph
1584	4-Cl	Me	3-CH2OH-Ph
1585	4-C1	Me	3-CHOHMe-Ph
1586	4-C1	Me	3-COH (Me) 2-Ph
1587	.4-Cl	Me	3-Me-Ph
1588	4-C1	Me	3-Et-Ph
1589	4-C1	Me	3-iPr-Ph
1590	4-C1	Me	3-tBu-Ph
1591	4-C1	Me	3-CH2CO2Me-Ph
1592	4-C1	Me	3-(1-piperidinyl)-Ph
1593	4-C1	Me	3-(1-pyrrolidinyl)-Ph
1594	4-C1	Me	3-(2-imidazoly1)-Ph
1595	4-C1	Me	3-(1-imidazolyl)-Ph
1596	4-C1	Me	3-(2-thiazolyl)-Ph
1597	4-C1	Me	3-(3-pyrazolyl)-Ph
1598	4-C1	Me	3-(1-pyrazolyl)-Ph
1599	4-C1	Me	3-(5-Me-1-tetrazolyl)-Ph
1600	4-C1	Me	3-(1-Me-5-tetrazolyl)-Ph
1601	4-C1	Me	3-(2-pyridyl)-Ph
1602	4-C1	Me	3-(2-thienyl)-Ph
1603	4-C1	Me	3-(2-furanyl)-Ph
1604	4-C1	Me	4-CN-Ph
1605	4-C1	Me	4-COMe-Ph
1606	4-C1	Me	4-CO2Me-Ph
1607	4-C1	Me	4-CONH2-Ph
1608	4-C1	Me	4-CONHMe-Ph
1609	4-C1	Me	4-CONHPh-Ph
1610	4-C1	Me	4-F-Ph
1611	4-C1	Me	4-Cl-Ph
1612	4-C1	Me	4-Br-Ph
1613	4-C1	Me	4-SO2NH2-Ph
1614	4-C1	Me	4-SO2NHMe-Ph
1615	4-C1	Me	4-CF3-Ph
1616	4-C1	Me	4-OMe-Ph
1617	4-C1	Me	4-SMe-Ph
1618	4-C1	Me	4-SOMe-Ph
1619	4-C1	Me	4-SO2Me-Ph
1620	4-C1	Me	4-OH-Ph
1621	4-C1	Me	4-CH2OH-Ph
1622	4-C1	Me	4-CHOHMe-Ph
1623	4-C1	Me	4-COH (Me) 2-Ph
1624	4-C1	Me	4-Me-Ph
1625	4-C1	Me	4-Et-Ph
1626	4-C1	Me	4-iPr-Ph
1627	4-C1	Me	4-tBu-Ph
1628	4-C1	Me	4-CH2CO2Me-Ph
1629	4-C1	Me	4-(1-piperidinyl)-Ph
1630	4-C1	Me	4-(1-pyrrolidinyl)-Ph
1631	4-C1	Me	4-(1-pyllolidinyl)-Ph 4-(2-imidazolyl)-Ph
_ 1001	= -CT	146	4-12-IMICAZOLYI)-PII

1632 4-C1 Me				
1634 4-Cl Me	1632	4-C1	Me	4-(1-imidazolyl)-Ph
1635 4-Cl Me 4-(1-pyrazolyl)-Ph 1636 4-Cl Me 4-(5-Me-1-tetrazolyl)-Ph 1637 4-Cl Me 4-(1-Me-5-tetrazolyl)-Ph 1638 4-Cl Me 4-(2-pyridyl)-Ph 1639 4-Cl Me 4-(2-furanyl)-Ph 1640 4-Cl Me 4-(2-furanyl)-Ph 1640 4-Cl Me 2-CN-Ph 1641 4-Cl Me 2-COM-Ph 1642 4-Cl Me 2-COM-Ph 1643 4-Cl Me 2-COMB-Ph 1644 4-Cl Me 2-COMHO-Ph 1645 4-Cl Me 2-CONHM-Ph 1646 4-Cl Me 2-F-Ph 1646 4-Cl Me 2-F-Ph 1647 4-Cl Me 2-SOZNH2-Ph 1648 4-Cl Me 2-SOZNH2-Ph 1650 4-Cl Me 2-SOZNH2-Ph 1651 4-Cl Me 2-SOZNH2-Ph 1652 4-Cl Me 2-SOZNH2-Ph 1653 4-Cl Me 2-SOZNH2-Ph 1655 4-Cl Me 2-SOZNH2-Ph 1655 4-Cl Me 2-SOZNH2-Ph 1656 4-Cl Me 2-SOZNH2-Ph 1657 4-Cl Me 2-SOZNH2-Ph 1658 4-Cl Me 2-SOZNH2-Ph 1659 4-Cl Me 2-SOZNH2-Ph 1650 4-Cl Me 2-SOZNH2-Ph 1651 4-Cl Me 2-SOZNE-Ph 1652 4-Cl Me 2-SOZNE-Ph 1653 4-Cl Me 2-SOZNE-Ph 1654 4-Cl Me 2-SOZNE-Ph 1655 4-Cl Me 2-SOZNE-Ph 1656 4-Cl Me 2-SOZNE-Ph 1657 4-Cl Me 2-SOZNE-Ph 1658 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-CH2OH-Ph 1661 4-Cl Me 2-CH2OH-Ph 1661 4-Cl Me 2-CH2OH-Ph 1663 4-Cl Me 2-CH2OH-Ph 1664 4-Cl Me 2-ET-Ph 1665 4-Cl Me 2-CH2OM-Ph 1666 4-Cl Me 2-IP-Ph 1667 4-Cl Me 2-IP-Ph 1668 4-Cl Me 2-IP-Ph 1669 4-Cl Me 2-CH2OZNE-Ph 1669 4-Cl Me 2-(1-pyrzolidinyl)-Ph 1669 4-Cl Me 2-(2-imidazolyl)-Ph 1670 4-Cl Me 2-(2-imidazolyl)-Ph 1671 4-Cl Me 2-(2-imidazolyl)-Ph 1672 4-Cl Me 2-(2-imidazolyl)-Ph 1673 4-Cl Me 2-(2-imidazolyl)-Ph 1674 4-Cl Me 2-(2-imidazolyl)-Ph 1675 4-Cl Me 2-(2-imidazolyl)-Ph 1676 4-Cl Me 2-(2-imidazolyl)-Ph 1679 4-Cl Me 2	1633	4-C1	Me	4-(2-thiazolyl)-Ph
1635	1634	4-C1	Me	
1636 4-Cl Me 4-(5-Me-1-tetrazolyl)-Ph 1637 4-Cl Me 4-(1-Me-5-tetrazolyl)-Ph 1638 4-Cl Me 4-(2-pyridyl)-Ph 1639 4-Cl Me 4-(2-thienyl)-Ph 1640 4-Cl Me 4-(2-furanyl)-Ph 1640 4-Cl Me 2-CN-Ph 1641 4-Cl Me 2-CN-Ph 1642 4-Cl Me 2-COME-Ph 1643 4-Cl Me 2-COME-Ph 1644 4-Cl Me 2-CONHE-Ph 1645 4-Cl Me 2-CONHE-Ph 1646 4-Cl Me 2-F-Ph 1647 4-Cl Me 2-F-Ph 1648 4-Cl Me 2-F-Ph 1649 4-Cl Me 2-SO2NHE-Ph 1650 4-Cl Me 2-SO2NHE-Ph 1651 4-Cl Me 2-SO2NHE-Ph 1652 4-Cl Me 2-SO2NHE-Ph 1653 4-Cl Me 2-SO2NHE-Ph 1654 4-Cl Me 2-SO2NHE-Ph 1655 4-Cl Me 2-SO2ME-Ph 1655 4-Cl Me 2-SO2ME-Ph 1656 4-Cl Me 2-SO2ME-Ph 1656 4-Cl Me 2-CH2OH-Ph 1657 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-EF-Ph 1660 4	1635	4-Cl	Me	
1637	1636	4-C1	Me	
1638	1637	4-C1	Me	
1639 4-C1 Me 4-(2-thieny1)-Ph 1640 4-C1 Me 4-(2-furany1)-Ph 1641 4-C1 Me 2-CN-Ph 1642 4-C1 Me 2-COME-Ph 1643 4-C1 Me 2-COME-Ph 1644 4-C1 Me 2-CONH2-Ph 1644 4-C1 Me 2-CONHE-Ph 1645 4-C1 Me 2-CONHE-Ph 1646 4-C1 Me 2-F-Ph 1647 4-C1 Me 2-Br-Ph 1648 4-C1 Me 2-SOZNHZ-Ph 1650 4-C1 Me 2-SOZNHZ-Ph 1651 4-C1 Me 2-SOZNHZ-Ph 1652 4-C1 Me 2-SOZNHM-Ph 1653 4-C1 Me 2-SOZNHM-Ph 1654 4-C1 Me 2-SM-Ph 1655 4-C1 Me 2-SOME-Ph 1656 4-C1 Me 2-SOME-Ph 1656 4-C1 Me 2-SOZM-Ph 1656 4-C1 Me 2-SOZM-Ph 1656 4-C1 Me 2-SOZM-Ph 1657 4-C1 Me 2-CH2OH-Ph 1658 4-C1 Me 2-CH2OH-Ph 1659 4-C1 Me 2-CHOHM-Ph 1660 4-C1 Me 2-CH0HM-Ph 1661 4-C1 Me 2-Et-Ph 1662 4-C1 Me 2-Et-Ph 1663 4-C1 Me 2-Et-Ph 1664 4-C1 Me 2-Et-Ph 1665 4-C1 Me 2-Et-Ph 1666 4-C1 Me 2-Et-Ph 1667 4-C1 Me 2-IPr-Ph 1668 4-C1 Me 2-IPr-Ph 1669 4-C1 Me 2-IPr-Ph 1660 4-C1 Me 2-IPr-Ph 1661 4-C1 Me 2-IPr-Ph 1662 4-C1 Me 2-IPr-Ph 1663 4-C1 Me 2-IPr-Ph 1664 4-C1 Me 2-IPr-Ph 1665 4-C1 Me 2-IPr-Ph 1666 4-C1 Me 2-IPr-Ph 1667 4-C1 Me 2-(1-pyrrolidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrolidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrolidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1667 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1671 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1671 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1672 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1673 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1674 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1675 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1676 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1677 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1678 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1679 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1679 4-C1 Me 2-(2-thieny1)-Ph 1679 4-C1 Me 2-(1-pyrrozlidiny1)-Ph 1679 4-C1 Me 2-(2-thieny1)-Ph 1679 4-C1 Me 2-(2-thieny1)-Ph 1679 4-C1 Me 2-(2-thieny1)-Ph 1679 4-C1 Me 2-(3-pyrzoly1)-Ph	1638	4-C1		
1640				
1641 4-Cl Me 2-CN-Ph 1642 4-Cl Me 2-COME-Ph 1643 4-Cl Me 2-COME-Ph 1644 4-Cl Me 2-CONH2-Ph 1645 4-Cl Me 2-CONHME-Ph 1646 4-Cl Me 2-F-Ph 1646 4-Cl Me 2-F-Ph 1647 4-Cl Me 2-Br-Ph 1648 4-Cl Me 2-Br-Ph 1649 4-Cl Me 2-SO2NH2-Ph 1650 4-Cl Me 2-CONHME-Ph 1651 4-Cl Me 2-CONHME-Ph 1652 4-Cl Me 2-CSO2NHME-Ph 1653 4-Cl Me 2-SO2NHP-Ph 1653 4-Cl Me 2-SME-Ph 1654 4-Cl Me 2-SME-Ph 1655 4-Cl Me 2-SOME-Ph 1656 4-Cl Me 2-CH2OH-Ph 1657 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-Et-Ph 1660 4-Cl Me 2-Et-Ph 1661 4-Cl Me 2-Et-Ph 1663 4-Cl Me 2-IPr-Ph 1664 4-Cl Me 2-IPr-Ph 1665 4-Cl Me 2-IPr-Ph 1666 4-Cl Me 2-IPr-Ph 1667 4-Cl Me 2-CH2OZME-Ph 1668 4-Cl Me 2-L-L-pyrrolidinyl)-Ph 1669 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1660 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1661 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1662 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1663 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1664 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1665 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1667 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1667 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1668 4-Cl Me 2-(1-pyrrolidinyl)-Ph 1670 4-Cl Me 2-(2-thiazolyl)-Ph 1671 4-Cl Me 2-(2-thiazolyl)-Ph 1672 4-Cl Me 2-(1-pyrrazolyl)-Ph 1673 4-Cl Me 2-(1-pyrrazolyl)-Ph 1674 4-Cl Me 2-(1-pyrrazolyl)-Ph 1675 4-Cl Me 2-(1-pyrrazolyl)-Ph 1676 4-Cl Me 2-(1-pyrrazolyl)-Ph 1677 4-Cl Me 2-(2-pyridyl)-Ph 1678 4-Cl Me 2-(2-thiapyl)-Ph 1679 4-Cl Me 2-(2-thiapyl)-Ph				
1642 4-Cl Me 2-COMe-Ph 1643 4-Cl Me 2-COME-Ph 1644 4-Cl Me 2-CONH2-Ph 1645 4-Cl Me 2-CONHME-Ph 1646 4-Cl Me 2-F-Ph 1646 4-Cl Me 2-F-Ph 1647 4-Cl Me 2-Br-Ph 1648 4-Cl Me 2-SO2NH2-Ph 1650 4-Cl Me 2-SO2NH2-Ph 1651 4-Cl Me 2-SO2NHME-Ph 1651 4-Cl Me 2-SOME-Ph 1653 4-Cl Me 2-SOME-Ph 1654 4-Cl Me 2-SOME-Ph 1655 4-Cl Me 2-SOME-Ph 1655 4-Cl Me 2-SOME-Ph 1656 4-Cl Me 2-CH2OH-Ph 1657 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-Et-Ph 1661 4-Cl Me 2-Et-Ph 1662 4-Cl Me 2-Et-Ph 1663 4-Cl Me 2-Et-Ph 1664 4-Cl Me 2-Et-Ph 1665 4-Cl Me 2-Et-Ph 1666 4-Cl Me 2-CH2OME-Ph 1666 4-Cl Me 2-Et-Ph 1666 4-Cl Me 2-Et-Ph 1666 4-Cl Me 2-Et-Ph 1666 4-Cl Me 2-CH2OME-Ph 1666 4-Cl Me 2-(1-piperidinyl)-Ph 1666 4-Cl Me 2-(1-piperidinyl)-Ph 1667 4-Cl Me 2-(1-piperidinyl)-Ph 1669 4-Cl Me 2-(1-piperidinyl)-Ph 1669 4-Cl Me 2-(1-piperidinyl)-Ph 1670 4-Cl Me 2-(1-piperidinyl)-Ph 1671 4-Cl Me 2-(1-piperidiyl)-Ph 1672 4-Cl Me 2-(1-piperidiyl)-Ph 1673 4-Cl Me 2-(1-piperidiyl)-Ph 1674 4-Cl Me 2-(1-piperidiyl)-Ph 1675 4-Cl Me 2-(1-piperidiyl)-Ph 1676 4-Cl Me 2-(1-piperidiyl)-Ph 1677 4-Cl Me 2-(1-piperidiyl)-Ph 1678 4-Cl Me 2-(1-piperidiyl)-Ph 1679 4-Cl Me 2-(1-piperidiyl)-Ph 1679 4-Cl Me 2-(1-piperidiyl)-Ph 1679 4-Cl Me 2-(1-piperidiyl)-Ph 1679 4-Cl Me 2-(2-piridyl)-Ph 1				
1643				
1644				
1645 4-C1 Me 2-CONHME-Ph 1646 4-C1 Me 2-F-Ph 1647 4-C1 Me 2-S-Ph 1648 4-C1 Me 2-Br-Ph 1649 4-C1 Me 2-SO2NH2-Ph 1650 4-C1 Me 2-SO2NHME-Ph 1651 4-C1 Me 2-CF3-Ph 1652 4-C1 Me 2-SOM-Ph 1653 4-C1 Me 2-SOM-Ph 1654 4-C1 Me 2-SOM-Ph 1655 4-C1 Me 2-SOM-Ph 16564 4-C1 Me 2-SOM-Ph 1655 4-C1 Me 2-SOM-Ph 16566 4-C1 Me 2-CH2OH-Ph 1657 4-C1 Me 2-CH2OH-Ph 1658 4-C1 Me 2-CH2OH-Ph 1658 4-C1 Me 2-CH2OH-Ph 1660 4-C1 Me 2-Me-Ph 1661 4-C1 Me 2-Br-Ph 1662 4-C1 Me 2-IP-Ph 1663 4-C1 Me 2-IP-Ph 1664 4-C1 Me 2-IP-Ph 1665 4-C1 Me 2-IP-Ph 1666 4-C1 Me 2-IP-Ph 1666 4-C1 Me 2-IP-Ph 1667 4-C1 Me 2-CH2OM-Ph 1668 4-C1 Me 2-CH2OM-Ph 1669 4-C1 Me 2-CH2OM-Ph 1669 4-C1 Me 2-CH2ODM-Ph 1669 4-C1 Me 2-(1-piperidinyl)-Ph 1669 4-C1 Me 2-(1-piperidinyl)-Ph 1669 4-C1 Me 2-(2-imidazolyl)-Ph 1669 4-C1 Me 2-(2-imidazolyl)-Ph 1670 4-C1 Me 2-(3-pyrazolyl)-Ph 1671 4-C1 Me 2-(1-pyrazolyl)-Ph 1672 4-C1 Me 2-(1-pyrazolyl)-Ph 1673 4-C1 Me 2-(1-me-5-tetrazolyl)-Ph 1674 4-C1 Me 2-(2-thienyl)-Ph 1675 4-C1 Me 2-(2-thienyl)-Ph 1676 4-C1 Me 2-(2-thienyl)-Ph 1677 4-C1 Me 2-(2-thienyl)-Ph 1678 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 3,4-diF-Ph 1681 4-C1 Me 3,5-diF-Ph				
1646 4-C1 Me 2-F-Ph 1647 4-C1 Me 2-C1-Ph 1648 4-C1 Me 2-Br-Ph 1649 4-C1 Me 2-SO2NH2-Ph 1650 4-C1 Me 2-SO2NH2-Ph 1651 4-C1 Me 2-SO2NH2-Ph 1652 4-C1 Me 2-CF3-Ph 1653 4-C1 Me 2-SME-Ph 1654 4-C1 Me 2-SME-Ph 1655 4-C1 Me 2-SOME-Ph 1656 4-C1 Me 2-SOME-Ph 1657 4-C1 Me 2-CH2OH-Ph 1658 4-C1 Me 2-CH2OH-Ph 1659 4-C1 Me 2-CH0HM2-Ph 1659 4-C1 Me 2-CH0HM2-Ph 1650 4-C1 Me 2-CH2OH-Ph 1650 4-C1 Me 2-Et-Ph 1660 4-C1 Me 2-IP-Ph 1661 4-C1 Me 2-IP-Ph 1662 4-C1 Me 2-IP-Ph 1663 4-C1 Me 2-IP-Ph 1664 4-C1 Me 2-IP-Ph 1665 4-C1 Me 2-IP-Ph 1666 4-C1 Me 2-IP-Ph 1667 4-C1 Me 2-CH2CO2Me-Ph 1668 4-C1 Me 2-C1-pyrrolidinyl)-Ph 1669 4-C1 Me 2-(1-pyrrolidinyl)-Ph 1669 4-C1 Me 2-(1-pyrzolidinyl)-Ph 1669 4-C1 Me 2-(2-thiazolyl)-Ph 1669 4-C1 Me 2-(2-thiazolyl)-Ph 1670 4-C1 Me 2-(2-thiazolyl)-Ph 1671 4-C1 Me 2-(1-pyrzolyl)-Ph 1672 4-C1 Me 2-(1-pyrzolyl)-Ph 1673 4-C1 Me 2-(1-pyrzolyl)-Ph 1674 4-C1 Me 2-(1-pyrzolyl)-Ph 1675 4-C1 Me 2-(2-thiazolyl)-Ph 1676 4-C1 Me 2-(2-thiazolyl)-Ph 1677 4-C1 Me 2-(2-thiapyl)-Ph 1678 4-C1 Me 2-(2-thiapyl)-Ph 1679 4-C1 Me 2-(2-thiapyl)-Ph				
1647				
1648 4-Cl Me 2-Br-Ph 1649 4-Cl Me 2-SO2NH2-Ph 1650 4-Cl Me 2-SO2NHMe-Ph 1651 4-Cl Me 2-GMe-Ph 1652 4-Cl Me 2-SMe-Ph 1653 4-Cl Me 2-SOMe-Ph 1654 4-Cl Me 2-SOMe-Ph 1655 4-Cl Me 2-OH-Ph 1656 4-Cl Me 2-CH2OH-Ph 1657 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-Et-Ph 1661 4-Cl Me 2-Et-Ph 1662 4-Cl Me 2-Et-Ph 1663 4-Cl Me 2-Et-Ph 1664 4-Cl Me 2-CH2CO2Me-Ph 1665 4-Cl Me 2-CH2CO2Me-Ph 1666 4-Cl				
1649 4-Cl Me 2-SO2NH2-Ph 1650 4-Cl Me 2-SO2NHMe-Ph 1651 4-Cl Me 2-CMe-Ph 1652 4-Cl Me 2-SMe-Ph 1653 4-Cl Me 2-SOMe-Ph 1654 4-Cl Me 2-SOMe-Ph 1655 4-Cl Me 2-CH2OH-Ph 1656 4-Cl Me 2-CH2OH-Ph 1657 4-Cl Me 2-CH2OH-Ph 1658 4-Cl Me 2-CH2OH-Ph 1659 4-Cl Me 2-CH2OH-Ph 1660 4-Cl Me 2-Et-Ph 1661 4-Cl Me 2-Et-Ph 1662 4-Cl Me 2-Et-Ph 1663 4-Cl Me 2-HDU-Ph 1664 4-Cl Me 2-CH2CO2Me-Ph 1665 4-Cl Me 2-(1-piperidinyl)-Ph 1666 4-Cl Me 2-(1-piperidinyl)-Ph 1667			·	
1650 4-Cl Me 2-SO2NHMe-Ph 1651 4-Cl Me 2-CF3-Ph 1652 4-Cl Me 2-SMe-Ph 1653 4-Cl Me 2-SMe-Ph 1654 4-Cl Me 2-SOZMe-Ph 1655 4-Cl Me 2-GH-Ph 1656 4-Cl Me 2-CH-OH-Ph 1657 4-Cl Me 2-CHOHME-Ph 1658 4-Cl Me 2-CHOHME-Ph 1659 4-Cl Me 2-Me-Ph 1660 4-Cl Me 2-Et-Ph 1661 4-Cl Me 2-Et-Ph 1662 4-Cl Me 2-IPr-Ph 1663 4-Cl Me 2-IPr-Ph 1664 4-Cl Me 2-IPr-Ph 1665 4-Cl Me 2-IPr-Ph 1666 4-Cl Me 2-IPr-Ph 1666 4-Cl Me 2-IPr-Ph 1667 4-Cl Me				
1651 4-C1 Me 2-CF3-Ph 1652 4-C1 Me 2-OMe-Ph 1653 4-C1 Me 2-SMe-Ph 1654 4-C1 Me 2-SOMe-Ph 1655 4-C1 Me 2-OH-Ph 1656 4-C1 Me 2-CH2OH-Ph 1657 4-C1 Me 2-CH0HMe-Ph 1658 4-C1 Me 2-CH0HMe-Ph 1659 4-C1 Me 2-Me-Ph 1660 4-C1 Me 2-Me-Ph 1661 4-C1 Me 2-Et-Ph 1662 4-C1 Me 2-IPr-Ph 1663 4-C1 Me 2-IPr-Ph 1664 4-C1 Me 2-CH2CO2Me-Ph 1665 4-C1 Me 2-CH2CO2Me-Ph 1666 4-C1 Me 2-(1-piperidinyl)-Ph 1667 4-C1 Me 2-(1-pyradinyl)-Ph 1668 4-C1 Me 2-(2-imidazolyl)-Ph 1669				
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1654 4-C1 Me 2-SOME-Ph 1655 4-C1 Me 2-SOZME-Ph 1656 4-C1 Me 2-OH-Ph 1657 4-C1 Me 2-CH2OH-Ph 1658 4-C1 Me 2-CH0HME-Ph 1659 4-C1 Me 2-CH0HME-Ph 1660 4-C1 Me 2-ME-Ph 1661 4-C1 Me 2-ET-Ph 1662 4-C1 Me 2-ET-Ph 1663 4-C1 Me 2-IP-Ph 1664 4-C1 Me 2-H2COZME-Ph 1665 4-C1 Me 2-CH2COZME-Ph 1666 4-C1 Me 2-(1-piperidinyl)-Ph 1667 4-C1 Me 2-(1-piperidinyl)-Ph 1668 4-C1 Me 2-(2-imidazolyl)-Ph 1669 4-C1 Me 2-(2-imidazolyl)-Ph 1669 4-C1 Me 2-(2-imidazolyl)-Ph 1670 4-C1 Me 2-(3-pyrazolyl)-Ph 1671 4-C1 Me 2-(1-pyrazolyl)-Ph 1672 4-C1 Me 2-(1-me-5-tetrazolyl)-Ph 1673 4-C1 Me 2-(2-thienyl)-Ph 1674 4-C1 Me 2-(2-thienyl)-Ph 1675 4-C1 Me 2-(2-thienyl)-Ph 1676 4-C1 Me 2-(2-thienyl)-Ph 1677 4-C1 Me 2-(2-thienyl)-Ph 1677 4-C1 Me 2-(2-thienyl)-Ph 1678 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(3-pyrazolyl)-Ph 1679 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(2-thienyl)-Ph 1679 4-C1 Me 2-(3-pyrazolyl)-Ph 1679 4-C1 Me 2-(3-pyridyl)-Ph				
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1683	4-C1	Me	2,5-diCl-Ph
1684	4-C1	Me	2,6-diCl-Ph
1685	4-C1	Me	3,4-diCl-Ph
1686	4-C1	Me	3,5-diCl-Ph
1687	4-C1	Me	3,4-diCF3-Ph
1688	4-C1	Me	3,5-diCF3-Ph
1689	4-C1	Me	5-C1-2-MeO-Ph
1690	4-C1	Me	5-C1-2-Me-Ph
1691	4-C1	Me	2-F-5-Me-Ph
1692	4-C1	Me	3-F-5-morpholino-Ph
1693	4-C1	Me	3,4-OCH2O-Ph
1694	4-C1	Me	3,4-0CH2CH2O-Ph
1695	4-C1	Me	2-MeO-5-CONH2-Ph
1696	4-C1	Me	2-MeO-3-COMM2-FM 2-MeO-4-(1-Me-5-tetrazoly1)-Ph
1697	4-C1	Me	2-MeO-5-(1-Me-5-tetrazoly1)-Ph
1698	4-C1	Me	3-CONH2-5-(1-Me-5-tetrazoly1)-Ph
1699	4-C1	Me	1-naphthyl
1700	4-C1	Me Me	2-naphthy1
1701	4-C1	Me	2-Haphthyi 2-thienyl
1702	4-C1	Me	3-thienyl
1703	4-C1	Me	· 2-furanyl
1704	4-C1	Me	3-furanyl
1705	4-C1	Me	2-pyridyl
1706	4-C1	Me	3-pyridyl
1707	4-C1	Me	4-pyridyl
1708	4-C1	Me	2-indolyl
1709	4-C1	Me	3-indolyl
1710	4-C1	Me	5-indolyl
1711	4-C1	Me	6-indolyl
1712	4-C1	Me	3-indazolyl
1713	4-C1	Me	5-indazolyl
1714	4-C1	Me	6-indazolyl
1715	4-C1	Me	2-imidazolyl
1716	4-C1	Me	3-isoxazoyl
1717	4-C1	Me	3-pyrazolyl
1718	4-C1	Me	2-thiadiazolyl
1719	4-C1	Me	2-thiazolyl
1720	4-C1	Me	5-Ac-4-Me-2-thiazolyl
1721	4-C1	Me	5-tetrazolyl
1722	4-C1	Me	2-benzimidazolyl
1723	4-C1	Me	5-benzimidazolyl
1724	4-C1	Me	2-benzothiazolyl
1725	4-C1	Me	5-benzothiazolyl
1726	4-C1	Me	2-benzoxazolyl
1727	4-C1	Me	5-benzoxazolyl
1728	4-C1	Me	1-adamantyl
1729	4-C1	Me	2-adamantyl
1730	4-C1	Me	i-Pr
1731	4-C1	Me	t-Bu
1732	4-C1	Me	c-Hex
1733	4-C1	Me	CH2CH2OMe
		110	CITACITAONE

1734	4-C1	Me	CH2CONH2
1735	4-C1	Me	CH2CO2Me
1736.	4-C1	Me	CH (CH2Ph) CO2Me
1737	4-C1	Мe	CH2CH2NMe2
1738	4-C1	Me	benzyl
1739	4-Cl	Me	phenethyl
1740	4-C1	Me	2-(morpholin-1-yl)-Et

Utility

The utility of the compounds in accordance with the present invention as modulators of chemokine receptor activity may be demonstrated by methodology known in the art, such as the assays for CCR-2 and CCR-3 ligand binding, as disclosed by Ponath et al., J. Exp. Med., 183, 2437-2448 (1996) and Uguccioni et al., J. Clin. Invest., 100, 1137-1143 (1997). Cell lines for 10 expressing the receptor of interest include those naturally expressing the chemokine receptor, such as EOL-3 or THP-1, those induced to express the chemokine receptor by the addition of chemical or protein agents, such as HL-60 or AML14.3D10 cells treated with, for 15 example, butyric acid with interleukin-5 present, or a cell engineered to express a recombinant chemokine receptor, such as CHO or HEK-293. Finally, blood or tissue cells, for example human peripheral blood eosinophils, isolated using methods as described by 20 Hansel et al., J. Immunol. Methods, 145, 105-110 (1991), can be utilized in such assays. In particular, the compound of the present invention have activity in binding to the CCR-3 receptor in the aforementioned assays. As used herein, "activity" is intended to mean 25 a compound demonstrating an IC50 of 10 μM or lower in concentration when measured in the aforementioned assays. Such a result is indicative of the intrinsic activity of the compounds as modulators of chemokine receptor activity. A general binding protocol is 30 described below.

CCR3-Receptor Binding Protocol

Millipore filter plates (#MABVN1250) are treated with 5 μ g/ml protamine in phosphate buffered saline, pH 7.2, for ten minutes at room temperature. Plates are 5 washed three times with phosphate buffered saline and incubated with phosphate buffered saline for thirty minutes at room temperature. For binding, 50 µl of binding buffer (0.5% bovine serum albumen, 20 mM HEPES 10 buffer and 5 mM magnesium chloride in RPMI 1640 media) with or without a test concentration of a compound present at a known concentration is combined with 50 µl of 125-I labeled human eotaxin (to give a final concentration of 150 pM radioligand) and 50 µl of cell 15 suspension in binding buffer containing 5x10⁵ total cells. Cells used for such binding assays can include cell lines transfected with a gene expressing CCR3 such as that described by Daugherty et al. (1996), isolated human eosinophils such as described by Hansel et al. 20 (1991) or the AML14.3D10 cell line after differentiation with butyric acid as described by Tiffany et al. (1998). The mixture of compound, cells and radioligand are incubated at room temperature for thirty minutes. Plates are placed onto a vacuum manifold, vacuum applied, and plates washed three times with binding 25 buffer with 0.5M NaCl added. The plastic skirt is removed from the plate, the plate allowed to air dry, the wells punch out and CPM counted. The percent inhibition of binding is calculated using the total count obtained in the absence of any competing compound 30 or chemokine ligand and the background binding determined by addition of 100 nM eotaxin in place of the test compound.

The utility of the compounds in accordance with the present invention as inhibitors of the migration of eosinophils or cell lines expressing the chemokine receptors may be demonstrated by methodology known in the art, such as the chemotaxis assay disclosed by Bacon et al., Brit. J. Pharmacol., 95, 966-974 (1988). In particular, the compound of the present invention have activity in inhibition of the migration of eosinophils in the aforementioned assays. As used herein, "activity" is intended to mean a compound demonstrating 10 an IC50 of 10 µM or lower in concentration when measured in the aforementioned assays. Such a result is indicative of the intrinsic activity of the compounds as modulators of chemokine receptor activity. A human eosinophil chemotaxis assay protocol is described below. 15

Human Eosinophil Chemotaxis Assay

Neuroprobe MBA96 96-well chemotaxis chambers with 20 Neuroprobe polyvinylpyrrolidone-free polycarbonate PFD5 5-micron filters in place are warmed in a 37°C incubator prior to assay. Freshly isolated human eosinophils, isolated according to a method such as that described by Hansel et al. (1991), are suspended in RPMI 1640 with 25 0.1% bovine serum albumin at 1 x 106 cells/ml and warmed in a 37°C incubator prior to assay. A 20 nM solution of human eotaxin in RPMI 1640 with 0.1% bovine serum albumin is warmed in a 37°C incubator prior to assay. The eosinophil suspension and the 20 nM eotaxin solution 30 are each mixed 1:1 with prewarmed RPMI 1640 with 0.1% bovine serum albumin with or without a dilution of a test compound that is at two fold the desired final concentration. These mixtures are warmed in a 37°C incubator prior to assay. The filter is separated from

the prewarmed Neuroprobe chemotaxis chamber and the eotaxin/compound mixture is placed into a Polyfiltronics MPC 96 well plate that has been placed in the bottom part of the Neuro Probe chemotaxis chamber. The approximate volume is 370 microliters and there should be a positive meniscus after dispensing. The filter is replaced above the 96 well plate, the rubber gasket is attached to the bottom of the upper chamber, and the chamber assembled. A 200 µl volume of the cell 10 suspension/compound mixture is added to the appropriate wells of the upper chamber. The upper chamber is covered with a plate sealer, and the assembled unit placed in a 37°C incubator for 45 minutes. After incubation, the plate sealer is removed and all 15 remaining cell suspension is aspirated off. is disassembled and, while holding the filter by the sides at a 90-degree angle, unmigrated cells are washed away using a gentle stream of phosphate buffered saline dispensed from a squirt bottle and then the filter wiped 20 with a rubber tipped squeegee. The filter is allowed to completely dry and immersed completely in Wright Giemsa stain for 30-45 seconds. The filter is rinsed with distilled water for 7 minutes, rinsed once with water briefly, and allowed to dry. Migrated cells are 25 enumerated by microscopy.

Mammalian chemokine receptors provide a target for interfering with or promoting immune cell function in a mammal, such as a human. Compounds that inhibit or promote chemokine receptor function are particularly useful for modulating immune cell function for therapeutic purposes. Accordingly, the present invention is directed to compounds which are useful in the prevention and/or treatment of a wide variety of inflammatory, infectious, and immunoregulatory disorders and diseases, including asthma and allergic diseases,

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infection by pathogenic microbes (which, by definition, includes viruses), as well as autoimmune pathologies such as the rheumatoid arthritis and atherosclerosis.

For example, an instant compound which inhibits one or more functions of a mammalian chemokine receptor (e.g., a human chemokine receptor) may be administered to inhibit (i.e., reduce or prevent) inflammation or infectious disease. As a result, one or more inflammatory process, such as leukocyte emigration, 10 adhesion, chemotaxis, exocytosis (e.g., of enzymes, histamine) or inflammatory mediator release, is inhibited. For example, eosinophilic infiltration to inflammatory sites (e.g., in asthma or allergic rhinitis) can be inhibited according to the present 15 method. In particular, the compound of the following examples has activity in blocking the migration of cells expressing the CCR-3 receptor using the appropriate chemokines in the aforementioned assays. As used herein, "activity" is intended to mean a compound 20 demonstrating an IC50 of 10 µM or lower in concentration when measured in the aforementioned assays. Such a result is also indicative of the intrinsic activity of the compounds as modulators of chemokine receptor activity.

Similarly, an instant compound which promotes one or more functions of the mammalian chemokine receptor (e.g., a human chemokine) as administered to stimulate (induce or enhance) an immune or inflammatory response, such as leukocyte emigration, adhesion, chemotaxis, exocytosis (e.g., of enzymes, histamine) or inflammatory mediator release, resulting in the beneficial stimulation of inflammatory processes. For example, eosinophils can be recruited to combat parasitic infections. In addition, treatment of the aforementioned inflammatory, allergic and autoimmune

diseases can also be contemplated for an instant compound which promotes one or more functions of the mammalian chemokine receptor if one contemplates the delivery of sufficient compound to cause the loss of receptor expression on cells through the induction of chemokine receptor internalization or the delivery of compound in a manner that results in the misdirection of the migration of cells.

In addition to primates, such as humans, a variety 10 of other mammals can be treated according to the method of the present invention. For instance, mammals, including but not limited to, cows, sheep, goats, horses, dogs, cats, guinea pigs, rats or other bovine, ovine, equine, canine, feline, rodent or murine species 15 can be treated. However, the method can also be practiced in other species, such as avian species. subject treated in the methods above is a mammal, male or female, in whom modulation of chemokine receptor activity is desired. "Modulation" as used herein is 20 intended to encompass antagonism, agonism, partial antagonism and/or partial agonism.

Diseases or conditions of human or other species which can be treated with inhibitors of chemokine receptor function, include, but are not limited to: 25 inflammatory or allergic diseases and conditions, including respiratory allergic diseases such as asthma, allergic rhinitis, hypersensitivity lung diseases, hypersensitivity pneumonitis, eosinophilic cellulitis (e.g., Well's syndrome), eosinophilic pneumonias (e.g., 30 Loeffler's syndrome, chronic eosinophilic pneumonia), eosinophilic fasciitis (e.g., Shulman's syndrome), delayed-type hypersensitivity, interstitial lung diseases (ILD) (e.g., idiopathic pulmonary fibrosis, or ILD associated with rheumatoid arthritis, systemic lupus 35 erythematosus, ankylosing spondylitis, systemic

sclerosis, Sjogren's syndrome, polymyositis or dermatomyositis); systemic anaphylaxis or hypersensitivity responses, drug allergies (e.g., to penicillin, cephalosporins), eosinophilia-myalgia syndrome due to the ingestion of contaminated tryptophan, insect sting allergies; autoimmune diseases, such as rheumatoid arthritis, psoriatic arthritis, multiple sclerosis, systemic lupus erythematosus, myasthenia gravis, juvenile onset diabetes; 10 glomerulonephritis, autoimmune thyroiditis, Behcet's disease; graft rejection (e.g., in transplantation), including allograft rejection or graft-versus-host disease; inflammatory bowel diseases, such as Crohn's disease and ulcerative colitis; spondyloarthropathies; 15 scleroderma; psoriasis (including T-cell mediated psoriasis) and inflammatory dermatoses such as an dermatitis, eczema, atopic dermatitis, allergic contact dermatitis, urticaria; vasculitis (e.g., necrotizing, cutaneous, and hypersensitivity vasculitis); 20 eosinophilic myositis, eosinophilic fasciitis; cancers with leukocyte infiltration of the skin or organs. Other diseases or conditions in which undesirable inflammatory responses are to be inhibited can be treated, including, but not limited to, reperfusion injury, atherosclerosis, certain hematologic 25 malignancies, cytokine-induced toxicity (e.g., septic shock, endotoxic shock), polymyositis, dermatomyositis. Infectious diseases or conditions of human or other species which can be treated with inhibitors of 30 chemokine receptor function, include, but are not limited to, HIV.

Diseases or conditions of humans or other species which can be treated with promoters of chemokine receptor function, include, but are not limited to: immunosuppression, such as that in individuals with

immunodeficiency syndromes such as AIDS or other viral infections, individuals undergoing radiation therapy, chemotherapy, therapy for autoimmune disease or drug therapy (e.g., corticosteroid therapy), which causes immunosuppression; immunosuppression due to congenital deficiency in receptor function or other causes; and infections diseases, such as parasitic diseases, including, but not limited to helminth infections, such as nematodes (round worms); (Trichuriasis, Enterobiasis, 10 Ascariasis, Hookworm, Strongyloidiasis, Trichinosis, filariasis); trematodes (flukes) (Schistosomiasis, Clonorchiasis), cestodes (tape worms) (Echinococcosis, Taeniasis saginata, Cysticercosis); visceral worms, visceral larva migraines (e.g., Toxocara), eosinophilic 15 gastroenteritis (e.g., Anisaki sp., Phocanema sp.), cutaneous larva migraines (Ancylostona braziliense, Ancylostoma caninum). The compounds of the present invention are accordingly useful in the prevention and treatment of a wide variety of inflammatory, infectious and immunoregulatory disorders and diseases. 20 addition, treatment of the aforementioned inflammatory, allergic and autoimmune diseases can also be contemplated for promoters of chemokine receptor function if one contemplates the delivery of sufficient 25 compound to cause the loss of receptor expression on cells through the induction of chemokine receptor internalization or delivery of compound in a manner that results in the misdirection of the migration of cells.

In another aspect, the instant invention may be

30 used to evaluate the putative specific agonists or
antagonists of a G protein coupled receptor. The
present invention is directed to the use of these
compounds in the preparation and execution of screening
assays for compounds that modulate the activity of

35 chemokine receptors. Furthermore, the compounds of this

invention are useful in establishing or determining the binding site of other compounds to chemokine receptors, e.g., by competitive inhibition or as a reference in an assay to compare its known activity to a compound with an unknown activity. When developing new assays or protocols, compounds according to the present invention could be used to test their effectiveness. Specifically, such compounds may be provided in a commercial kit, for example, for use in pharmaceutical 10 research involving the aforementioned diseases. The compounds of the instant invention are also useful for the evaluation of putative specific modulators of the chemokine receptors. In addition, one could utilize compounds of this invention to examine the specificity 15 of G protein coupled receptors that are not thought to be chemokine receptors, either by serving as examples of compounds which do not bind or as structural variants of compounds active on these receptors which may help define specific sites of interaction.

20 Combined therapy to prevent and treat inflammatory, infectious and immunoregulatory disorders and diseases, including asthma and allergic diseases, as well as autoimmune pathologies such as rheumatoid arthritis and atherosclerosis, and those pathologies noted above is 25 illustrated by the combination of the compounds of this invention and other compounds which are known for such utilities. For example, in the treatment or prevention of inflammation, the present compounds may be used in conjunction with an anti-inflammatory or analgesic agent 30 such as an opiate agonist, a lipoxygenase inhibitor, a cyclooxygenase-2 inhibitor, an interleukin inhibitor, such as an interleukin-1 inhibitor, a tumor necrosis factor inhibitor, an NMDA antagonist, an inhibitor or nitric oxide or an inhibitor of the synthesis of nitric oxide, a non-steroidal anti-inflammatory agent, a 35

phosphodiesterase inhibitor, or a cytokine-suppressing anti-inflammatory agent, for example with a compound such as acetaminophen, aspirin, codeine, fentaynl, ibuprofen, indomethacin, ketorolac, morphine, naproxen, phenacetin, piroxicam, a steroidal analgesic, 5 sufentanyl, sunlindac, interferon alpha and the like. Similarly, the instant compounds may be administered with a pain reliever; a potentiator such as caffeine, an H2-antagonist, simethicone, aluminum or magnesium 10 hydroxide; a decongestant such as phenylephrine, phenylpropanolamine, pseudophedrine, oxymetazoline, ephinephrine, naphazoline, xylometazoline, propylhexedrine, or levodesoxy-ephedrine; and antitussive such as codeine, hydrocodone, caramiphen, 15 carbetapentane, or dextramethorphan; a diuretic; and a sedating or non-sedating antihistamine. Likewise, compounds of the present invention may be used in combination with other drugs that are used in the treatment/prevention/suppression or amelioration of the 20 diseases or conditions for which compound of the present invention are useful. Such other drugs may be administered, by a route and in an amount commonly used therefore, contemporaneously or sequentially with a compound of the present invention. When a compound of the present invention is used contemporaneously with one or more other drugs, a pharmaceutical composition containing such other drugs in addition to the compound of the present invention is preferred. Accordingly, the pharmaceutical compositions of the present invention 30 include those that also contain one or more other active ingredients, in addition to a compound of the present invention. Examples of other active ingredients that may be combined with a compound of the present invention, either administered separately or in the same 35 pharmaceutical compositions, include, but are not

limited to: (a) integrin antagonists such as those for selectins, ICAMs and VLA-4; (b) steroids such as beclomethasone, methylprednisolone, betamethasone, prednisone, dexamethasone, and hydrocortisone; (c) immunosuppressants such as cyclosporin, tacrolimus, rapamycin and other FK-506 type immunosuppressants; (d) antihistamines (H1-histamine antagonists) such as bromopheniramine, chlorpheniramine, dexchlorpheniramine, triprolidine, clemastine, diphenhydramine, 10 diphenylpyraline, tripelennamine, hydroxyzine, methdilazine, promethazine, trimeprazine, azatadine, cyproheptadine, antazoline, pheniramine pyrilamine, astemizole, terfenadine, loratadine, cetirizine, fexofenadine, descarboethoxyloratadine, and the like; 15 (e) non-steroidal anti-asthmatics such as b2-agonists (terbutaline, metaproterenol, fenoterol, isoetharine, albuteral, bitolterol, and pirbuterol), theophylline, cromolyn sodium, atropine, ipratropium bromide, leukotriene antagonists (zafirlukast, montelukast, 20 pranlukast, iralukast, pobilukast, SKB-102,203), leukotriene biosynthesis inhibitors (zileuton, BAY-1005); (f) non-steroidal antiinflammatory agents (NSAIDs) such as propionic acid derivatives (alminoprofen, benxaprofen, bucloxic acid, carprofen, 25 fenbufen, fenoprofen, fluprofen, flurbiprofen, ibuprofen, indoprofen, ketoprofen, miroprofen, naproxen, oxaprozin, pirprofen, pranoprofen, suprofen, tiaprofenic acid, and tioxaprofen), acetic acid derivatives (indomethacin, acemetacin, alclofenac, clidanac, 30 diclofenac, fenclofenac, fenclozic acid, fentiazac, furofenac, ibufenac, isoxepac, oxpinac, sulindac, tiopinac, tolmetin, zidometacin, and zomepirac), fenamic acid derivatives (flufenamic acid, meclofenamic acid, mefenamic acid, niflumic acid and tolfenamic acid), 35 biphenylcarboxylic acid derivatives (diflunisal and

flufenisal), oxicams (isoxicam, piroxicam, sudoxicam and tenoxican), salicylates (acetyl salicylic acid, sulfasalazine) and the pyrazolones (apazone, bezpiperylon, feprazone, mofebutazone, oxyphenbutazone, phenylbutazone); (g) cyclooxygenase-2 (COX-2) inhibitors; (h) inhibitors of phosphodiesterase type IV (PDE-IV); (I) other antagonists of the chemokine receptors; (j) cholesterol lowering agents such as HMG-COA reductase inhibitors (lovastatin, simvastatin and 10 pravastatin, fluvastatin, atorvsatatin, and other statins), sequestrants (cholestyramine and colestipol), nicotonic acid, fenofibric acid derivatives (gemfibrozil, clofibrat, fenofibrate and benzafibrate), and probucol; (k) anti-diabetic agents such as insulin, 15 sulfonylureas, biguanides (metformin), a-glucosidase inhibitors (acarbose) and glitazones (troglitazone ad pioglitazone); (1) preparations of interferons (interferon alpha-2a, interferon-2B, interferon alpha-N3, interferon beta-1a, interferon beta-1b, interferon 20 gamma-1b); (m) antiviral compounds such as efavirenz, nevirapine, indinavir, ganciclovir, lamivudine, famciclovir, and zalcitabine; (o) other compound such as 5-aminosalicylic acid an prodrugs thereof, antimetabolites such as azathioprine and 6-25 mercaptopurine, and cytotoxic cancer chemotherapeutic agents. The weight ratio of the compound of the present invention to the second active ingredient may be varied and will depend upon the effective doses of each ingredient. Generally, an effective dose of each will 30 be used. Thus, for example, when a compound of the present invention is combined with an NSAID the weight ratio of the compound of the present invention to the NSAID will generally range from about 1000:1 to about 1:1000, preferably about 200:1 to about 1:200. Combinations of a compound of the present invention and 35

other active ingredients will generally also be within the aforementioned range, but in each case, an effective dose of each active ingredient should be used.

The compounds are administered to a mammal in a therapeutically effective amount. By "therapeutically effective amount" it is meant an amount of a compound of Formula I that, when administered alone or in combination with an additional therapeutic agent to a mammal, is effective to prevent or ameliorate the thromboembolic disease condition or the progression of the disease.

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Dosage and Formulation

The compounds of this invention can be administered in such oral dosage forms as tablets, 15 capsules (each of which includes sustained release or timed release formulations), pills, powders, granules, elixirs, tinctures, suspensions, syrups, and emulsions. They may also be administered in intravenous (bolus or 20 infusion), intraperitoneal, subcutaneous, or intramuscular form, all using dosage forms well known to those of ordinary skill in the pharmaceutical arts. They can be administered alone, but generally will be administered with a pharmaceutical carrier selected on 25 the basis of the chosen route of administration and standard pharmaceutical practice.

The dosage regimen for the compounds of the present invention will, of course, vary depending upon known factors, such as the pharmacodynamic characteristics of the particular agent and its mode and route of administration; the species, age, sex, health, medical condition, and weight of the recipient; the nature and extent of the symptoms; the kind of concurrent treatment; the frequency of treatment; the route of administration, the renal and hepatic function of the

patient, and the effect desired. A physician or veterinarian can determine and prescribe the effective amount of the drug required to prevent, counter, or arrest the progress of the thromboembolic disorder.

By way of general guidance, the daily oral dosage 5 of each active ingredient, when used for the indicated effects, will range between about 0.001 to 1000 mg/kg of body weight, preferably between about 0.01 to 100 mg/kg of body weight per day, and most preferably between about 1.0 to 20 mg/kg/day. Intravenously, the most preferred doses will range from about 1 to about 10 mg/kg/minute during a constant rate infusion. Compounds of this invention may be administered in a single daily dose, or the total daily dosage may be administered in divided doses of two, three, or four times daily.

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Compounds of this invention can be administered in intranasal form via topical use of suitable intranasal vehicles, or via transdermal routes, using transdermal skin patches. When administered in the form of a transdermal delivery system, the dosage administration will, of course, be continuous rather than intermittent throughout the dosage regimen.

The compounds are typically administered in admixture with suitable pharmaceutical diluents, excipients, or carriers (collectively referred to herein as pharmaceutical carriers) suitably selected with respect to the intended form of administration, that is, oral tablets, capsules, elixirs, syrups and the like, and consistent with conventional pharmaceutical practices.

For instance, for oral administration in the form of a tablet or capsule, the active drug component can be combined with an oral, non-toxic, pharmaceutically acceptable, inert carrier such as lactose, starch, sucrose, glucose, methyl callulose, magnesium stearate,

dicalcium phosphate, calcium sulfate, mannitol, sorbitol and the like; for oral administration in liquid form, the oral drug components can be combined with any oral, non-toxic, pharmaceutically acceptable 5 inert carrier such as ethanol, glycerol, water, and the like. Moreover, when desired or necessary, suitable binders, lubricants, disintegrating agents, and coloring agents can also be incorporated into the Suitable binders include starch, gelatin, 10 natural sugars such as glucose or beta-lactose, corn sweeteners, natural and synthetic gums such as acacia, tragacanth, or sodium alginate, carboxymethylcellulose, polyethylene glycol, waxes, and the like. Lubricants used in these dosage forms include sodium oleate, 15 sodium stearate, magnesium stearate, sodium benzoate, sodium acetate, sodium chloride, and the like. Disintegrators include, without limitation, starch, methyl cellulose, agar, bentonite, xanthan gum, and the like.

The compounds of the present invention can also be administered in the form of liposome delivery systems, such as small unilamellar vesicles, large unilamellar vesicles, and multilamellar vesicles. Liposomes can be formed from a variety of phospholipids, such as cholesterol, stearylamine, or phosphatidylcholines.

Compounds of the present invention may also be coupled with soluble polymers as targetable drug carriers. Such polymers can include polyvinylpyrrolidone, pyran copolymer,

30 polyhydroxypropylmethacrylamide-phenol, polyhydroxyethylaspartamidephenol, or polyethyleneoxide-polylysine substituted with palmitoyl residues. Furthermore, the compounds of the present invention may be coupled to a class of biodegradable polymers useful in achieving controlled release of a

drug, for example, polylactic acid, polyglycolic acid, copolymers of polylactic and polyglycolic acid, polyepsilon caprolactone, polyhydroxy butyric acid, polyorthoesters, polyacetals, polydihydropyrans, polycyanoacylates, and crosslinked or amphipathic block copolymers of hydrogels.

Dosage forms (pharmaceutical compositions) suitable for administration may contain from about 1 milligram to about 100 milligrams of active ingredient per dosage unit. In these pharmaceutical compositions the active ingredient will ordinarily be present in an amount of about 0.5-95% by weight based on the total weight of the composition.

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Gelatin capsules may contain the active ingredient
and powdered carriers, such as lactose, starch,
cellulose derivatives, magnesium stearate, stearic acid,
and the like. Similar diluents can be used to make
compressed tablets. Both tablets and capsules can be
manufactured as sustained release products to provide
for continuous release of medication over a period of
hours. Compressed tablets can be sugar coated or film
coated to mask any unpleasant taste and protect the
tablet from the atmosphere, or enteric coated for
selective disintegration in the gastrointestinal tract.

Liquid dosage forms for oral administration can contain coloring and flavoring to increase patient acceptance.

In general, water, a suitable oil, saline, aqueous dextrose (glucose), and related sugar solutions and glycols such as propylene glycol or polyethylene glycols are suitable carriers for parenteral solutions.

Solutions for parenteral administration preferably contain a water soluble salt of the active ingredient, suitable stabilizing agents, and if necessary, buffer substances. Antioxidizing agents such as sodium

bisulfite, sodium sulfite, or ascorbic acid, either alone or combined, are suitable stabilizing agents. Also used are citric acid and its salts and sodium EDTA. In addition, parenteral solutions can contain preservatives, such as benzalkonium chloride, methyl- or propyl-paraben, and chlorobutanol.

Suitable pharmaceutical carriers are described in Remington's Pharmaceutical Sciences, Mack Publishing Company, a standard reference text in this field.

Representative useful pharmaceutical dosage-forms for administration of the compounds of this invention can be illustrated as follows:

<u>Capsules</u>

A large number of unit capsules can be prepared
by filling standard two-piece hard gelatin capsules each
with 100 milligrams of powdered active ingredient, 150
milligrams of lactose, 50 milligrams of cellulose, and 6
milligrams magnesium stearate.

Soft Gelatin Capsules

A mixture of active ingredient in a digestable oil such as soybean oil, cottonseed oil or olive oil may be prepared and injected by means of a positive displacement pump into gelatin to form soft gelatin capsules containing 100 milligrams of the active ingredient. The capsules should be washed and dried.

<u>Tablets</u>

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Tablets may be prepared by conventional procedures so that the dosage unit is 100 milligrams of active ingredient, 0.2 milligrams of colloidal silicon dioxide, 5 milligrams of magnesium stearate, 275 milligrams of microcrystalline cellulose, 11 milligrams of starch and 98.8 milligrams of lactose. Appropriate coatings may be applied to increase palatability or delay absorption.

<u>Injectable</u>

A parenteral composition suitable for administration by injection may be prepared by stirring 1.5% by weight of active ingredient in 10% by volume propylene glycol and water. The solution should be made isotonic with sodium chloride and sterilized.

Suspension

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An aqueous suspension can be prepared for oral administration so that each 5 mL contain 100 mg of finely divided active ingredient, 200 mg of sodium carboxymethyl cellulose, 5 mg of sodium benzoate, 1.0 g of sorbitol solution, U.S.P., and 0.025 mL of vanillin.

Where the compounds of this invention are combined with other anticoagulant agents, for example, a daily 15 dosage may be about 0.1 to 100 milligrams of the compound of Formula I and about 1 to 7.5 milligrams of the second anticoagulant, per kilogram of patient body weight. For a tablet dosage form, the compounds of this invention generally may be present in an amount of about 5 to 10 milligrams per dosage unit, and the second anticoagulant in an amount of about 1 to 5 milligrams per dosage unit.

Where two or more of the foregoing second therapeutic agents are administered with the compound of Formula I, generally the amount of each component in a typical daily dosage and typical dosage form may be reduced relative to the usual dosage of the agent when administered alone, in view of the additive or synergistic effect of the therapeutic agents when administered in combination.

Particularly when provided as a single dosage unit, the potential exists for a chemical interaction between the combined active ingredients. For this reason, when the compound of Formula I and a second therapeutic agent are combined in a single dosage unit they are formulated

such that although the active ingredients are combined in a single dosage unit, the physical contact between the active ingredients is minimized (that is, reduced). For example, one active ingredient may be enteric coated. By enteric coating one of the active ingredients, it is possible not only to minimize the contact between the combined active ingredients, but also, it is possible to control the release of one of these components in the gastrointestinal tract such that 10 one of these components is not released in the stomach but rather is released in the intestines. One of the active ingredients may also be coated with a material which effects a sustained-release throughout the gastrointestinal tract and also serves to minimize 15 physical contact between the combined active ingredients. Furthermore, the sustained-released component can be additionally enteric coated such that the release of this component occurs only in the intestine. Still another approach would involve the formulation of a combination product in which the one 20 component is coated with a sustained and/or enteric release polymer, and the other component is also coated with a polymer such as a lowviscosity grade of hydroxypropyl methylcellulose (HPMC) or other 25 appropriate materials as known in the art, in order to further separate the active components. The polymer coating serves to form an additional barrier to interaction with the other component.

These as well as other ways of minimizing contact between the components of combination products of the present invention, whether administered in a single dosage form or administered in separate forms but at the same time by the same manner, will be readily apparent to those skilled in the art, once armed with the present disclosure.

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As will be apparent to one skilled in the art, numerous modifications and variations of the present invention are possible in light of the above teachings. It is therefore to be understood that within the scope of the appended claims, the invention may be practiced otherwise than as specifically described herein.

What is Claimed is:

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1. A compound of formula (I):

K-M R⁴ 7 L-Q R¹ N-R³

or stereoisomers or pharmaceutically acceptable salts thereof, wherein:

10 M is absent or selected from CH_2 , CHR^5 , CHR^{13} , $CR^{13}R^{13}$, and CR^5R^{13} ;

Q is selected from CH_2 , CHR^5 , CHR^{13} , $CR^{13}R^{13}$, and CR^5R^{13} ;

15 J and K are independently selected from CH_2 , CHR^5 , CHR^6 , CR^6R^6 and CR^5R^6 ;

L is selected from CHR⁵ and CR⁵R⁶;

Z is selected from O, S, NR^{1a} , $C(CN)_2$, $CH(NO_2)$, and CHCN;

 R^{1a} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{3-6} cycloalky

30 R^{1b} is independently selected from H, C₁₋₃ alkyl, C₃₋₆ cycloalkyl, and phenyl;

G is selected from a bond, C=O, and SO2;

Fing B is a 5, 6, or 7 membered saturated heterocyclic ring wherein the heterocycle ring includes -NR⁹-,
-O-, -S(O)_p-, -NR^{9d}C(O)-, -C(O)NR^{9d}-, -C(O)O-,
-OC(O)-, -NR^{9d}C(O)NR^{9d}, -NR^{9d}C(O)O-, -NR^{9d}S(O)₂-,
-S(O)₂NR^{9d}, or -OC(O)NR^{9d}-, the heterocycle ring
being optionally substituted by 0-2 R⁸;

 R^1 and R^2 are independently selected from H, C_{1-8} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, and $(CH_2)_rC_{3-6}$ cycloalkyl;

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R³ is selected from methyl substituted with 0-1 R¹⁰, C₂₋₈ alkyl substituted with 0-3 R⁷, C₃₋₈ alkenyl substituted with 0-3 R⁷, C₃₋₈ alkynyl substituted with 0-3 R⁷, C₂ fluoroalkyl, C₃₋₈ haloalkyl, a $(CR^3'R^3'')_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R¹⁵ and a $(CR^3'R^3'')_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R¹⁵;

 $\mbox{R}^{3}{}^{\prime}$ and $\mbox{R}^{3}{}^{\prime\prime},$ at each occurrence, are selected from H, \mbox{C}_{1-6}

alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;

 R^4 is absent, taken with the nitrogen to which it is attached to form an N-oxide, or selected from C_{1-8} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, $(CH_2)_{r}C_{3-6}$ cycloalkyl, $(CH_2)_{q}C(0)R^{4b}$, $(CH_2)_{q}C(0)NR^{4a}R^{4a'}$, $(CH_2)_{q}C(0)OR^{4b}$, and a $(CH_2)_{r}-C_{3-10}$ carbocyclic residue substituted with 0-3 R^{4c} ;

 R^{4a} and $R^{4a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;

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- R^{4b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, $(CH_2)_rC_{3-6}$ cycloalkyl, C_{3-8} alkynyl, and phenyl;
- 15 R^{4c} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rNR^{4a}R^{4a'}$, and $(CH_2)_rphenyl$;

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- R^5 is selected from a $(CR^5'R^5'')_t-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{16} and a $(CR^5'R^5'')_t-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{16} ;
 - $R^{5'}$ and $R^{5''}$, at each occurrence, are selected from H, C_{1-6} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and phenyl;

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 R^6 , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl,

 $(CF_2)_r CF_3, CN, (CH_2)_r NR^{6a}R^{6a'}, (CH_2)_r OH, (CH_2)_r OR^{6b}, \\ (CH_2)_r SH, (CH_2)_r SR^{6b}, (CH_2)_r C(O)OH, (CH_2)_r C(O)R^{6b}, \\ (CH_2)_r C(O)NR^{6a}R^{6a'}, (CH_2)_r NR^{6d}C(O)R^{6a}, (CH_2)_r C(O)OR^{6b}, \\ (CH_2)_r OC(O)R^{6b}, (CH_2)_r S(O)_p R^{6b}, (CH_2)_r S(O)_2 NR^{6a}R^{6a'}, \\ (CH_2)_r NR^{6d}S(O)_2 R^{6b}, and (CH_2)_t phenyl substituted \\ with 0-3 R^{6c};$

 R^{6a} and $R^{6a^{\prime}},$ at each occurrence, are selected from H, C_{1-6}

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10 alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{6c} ;

 $R^{6b}, \mbox{ at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} }$

cycloalkyl, and phenyl substituted with 0-3 R6c;

 R^{6c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, and $(CH_2)_rNR^{6d}R^{6d}$;

 R^{6d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;

with the proviso that when any of J or K is CR6R6 and R6 is cyano, or bonded to the carbon to which it is attached through a heteroatom, the other R6 is not cyano, or bonded to the carbon to which it is attached through a heteroatom;

 R^7 is selected from NO_2 , CN, $NR^{7a}R^{7a}$, OH, OR^{7d} , C(O)H, C(O)OH, $C(O)R^{7b}$, $C(O)NR^{7a}R^{7a}$, $NR^{7f}C(O)OR^{7d}$,

OC(O)NR^{7a}R^{7a}', NR^{7f}C(O)R^{7b}, NR^{7f}C(O)NR^{7f}R^{7f}, C(O)OR^{7d}, OC(O)R^{7b}, C(=NR^{7f})NR^{7a}R^{7a}', NHC(=NR^{7f})NR^{7f}R^{7f}, S(O)₂RR^{7a}, NR^{7f}S(O)₂R^{7b}, C₁₋₆ haloalkyl;

- 5 R^{7a} and R^{7a}, at each occurrence, are selected from H,

 C₁₋₆ alkyl, C₃₋₈ alkenyl, C₃₋₈ alkynyl, a (CH₂)_r-C₃₋₁₀ carbocyclic residue substituted with 0-5 R^{7e},

 and a (CH₂)_r-5-10 membered heterocyclic system

 containing 1-4 heteroatoms selected from N, O, and

 S, substituted with 0-2 R^{7e};
- alternatively, R^{7a} and R^{7a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{7h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;
- R^{7b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-3 R^{7e} , and $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{7e} ;

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 R^{7d} , at each occurrence, is selected from C_{3-8} alkenyl, C_{3-8} alkynyl, methyl, CF_3 , C_{2-6} alkyl substituted with 0-3 R^{7e} , a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{7e} , and a $(CH_2)_r$ 5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{7e} ;

 R^{7e} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $C(0)C_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, C1, C1

heterocycle substituted with 0-1 R^{7g}, wherein the heterocycle is selected from imidazole, thiazole, oxazole, pyrazole, 1,2,4-triazole, 1,2,3-triazole, isoxazole, and tetrazole,;

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 R^{7f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;

 ${\bf R}^{7g}$ is selected from methyl, ethyl, acetyl, and ${\bf CF_3}$;

 R^{7h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(0)R^{7f}$, $C(0)OR^{7i}$, and SO_2R^{7i} ;

 R^{7i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;

 R^8 is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{1-6} haloalkyl, a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{8c} , and a $(CH_2)_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{8c} ;

 R^{8a} , at each occurrence, are selected from H, C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{8e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing

1-4 heteroatoms selected from N, O, and S, substituted with 0-3 \mathbb{R}^{8e} ;

 R^{8b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-2 R^{8e} , and a $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{8e} ;

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- R^{8c} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, Cl, Br, I, F, $(CF_2)_rCF_3$, NO_2 , CN, $(CH_2)_rNR^{8f}R^{8f}$, $(CH_2)_rOH$, $(CH_2)_rOC_{1-4}$ alkyl, $(CH_2)_rSC_{1-4}$ alkyl,
- 15 $(CH_2)_rC(O)OH$, $(CH_2)_rC(O)R^{8a}$, $(CH_2)_rC(O)NR^{8f}R^{8f}$, $(CH_2)_rNR^{8f}C(O)R^{8a}$, $(CH_2)_rC(O)OC_{1-4}$ alkyl, $(CH_2)_rOC(O)R^{8b}$, $(CH_2)_rS(O)_pR^{8b}$, $(CH_2)_rS(O)_2NR^{8f}R^{8f}$, $(CH_2)_rNR^{8f}S(O)_2R^{8b}$, and $(CH_2)_rphenyl$ substituted with 0-3 R^{8e} ;

- R^{8e} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, C_{1} , F, C_{1} , C_{1} , C_{1} , C_{2} , C_{2} , C_{3} , C_{1} , C_{1} , C_{1} , C_{2} , C_{2} , C_{3} , C_{3} , C_{1} , C_{2} , C_{1} , C_{2} , C_{2} , C_{3} , C_{3} , C_{3} , C_{4} , C_{1} , C_{2} , C_{1} , C_{2} , C_{2} , C_{3} , C_{4} ,
 - R^{8f} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- 30 R^9 is selected from H, CH₃, C₂₋₆ alkyl substituted with 0-3 R^{9a} , C₃₋₈ alkenyl, C₃₋₈ alkynyl, C₁₋₆ haloalkyl, (CHR')_rC(O)C₁₋₆ alkyl substituted with 0-3 R^{9j} ,

 $(CHR')_{r}C(O)OC_{1-6} \text{ alkyl substituted with } 0-3 \text{ R}^{9b},$ $(CHR')_{r}C(O)NR^{9d}R^{9d'}, (CHR')_{r}S(O)_{2}C_{1-6} \text{ alkyl, } S(O)_{2}C_{1-6}$ $\text{ haloalkyl, } (CHR')_{r}S(O)_{2}NR^{9d}R^{9d}, R^{9'},$ $(CHR')_{r}C(O)R^{9'}, (CHR')_{r}C(O)NR^{9d}R^{9'}, (CHR')_{r}S(O)_{2}R^{9'},$ $\text{ and } (CHR')_{r}S(O)_{2}NR^{9d}R^{9'};$

- R^{9} ', at each occurrence, is independently selected from $(CHR')_rC_{3-6}$ cycloalkyl substituted with 0-3 R^{9c} , $(CHR')_r$ phenyl substituted with 0-3 R^{9c} , $(CHR')_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{9c} ,
- R^{9a} , at each occurrence, is selected from CN, NO_2 , OC_{1-5} alkyl, CF_3 , OH, OC_{1-5} alkyl, $OC(0)C_{1-5}$ alkyl, SC_{1-5} alkyl, $S(0)_pC_{1-5}$ alkyl, and $NR^{9d}R^{9d'}$;
- R^{9b} , at each occurrence, is selected from C_{3-6} cycloalkyl, CN, $(CF_2)_rCF_3$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qOH$, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_qNR^{9d}R^{9d}$;
- R^{9c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CHR')_rC(0)C_{1-5}$ alkyl, $(CHR')_rC(0)NR^{9d}R^{9d'}$, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rS(0)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d'}$;
- 30 provided that if R^{9c} is attached to a carbon attached to the nitrogen on Ring B, then R^{9c} is selected from

 $(CH_2)_qOH$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_qS(O)_qC_{1-5}$ alkyl, and $(CH_2)_qNR^{9d}R^{9d'}$;

- R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, C₁₋₆ alkyl, C₃₋₆ cycloalkyl, and phenyl;
- alternatively, R^{9d} and R^{9d'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{9h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;
- 15 R^{9e} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1} , F, Br, I, CN, NO_{2} , $(CF_{2})_{r}CF_{3}$, $(CH_{2})_{r}OC_{1-5}$ alkyl, $(CHR')_{r}C(O)OC_{1-5}$ alkyl, $(CHR')_{r}C(O)NR^{9d}R^{9d'}$, $(CH_{2})_{r}OH$, $(CH_{2})_{r}SC_{1-5}$ alkyl, $(CH_{2})_{r}S(O)_{p}C_{1-5}$ alkyl, and $(CH_{2})_{r}NR^{9d}R^{9d'}$, or alternatively, two R^{9e} on the same carbon atom form
 - R^{9h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(0)R^{9f}$, $C(0)OR^{9i}$, and SO_2R^{9i} ;
- 25 R^{9i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;
- R^{9j} , at each occurrence, is selected from C_{3-6} cycloalkyl, CN, $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d'}$;

 R^{10} is selected from C(O)H, C(O)OH, C(O)R^{10b}, C(O)NR^{10a}R^{10a}, C(O)OR^{10d}, C(=NR^{10f})NR^{10a}R^{10a}, S(O)R^{10b}, S(O)₂R^{10b}, S(O)₂NR^{10a}R^{10a};

- 5 R^{10a} and $R^{10a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r-C_{3-10}$ carbocyclic residue substituted with 0-5 R^{10e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{10e} ;
- alternatively, R^{10a} and R^{10a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{10h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;
- R^{10b}, at each occurrence, is selected from C₁₋₆ alkyl,

 C₃₋₈ alkenyl, C₃₋₈ alkynyl, a (CH₂)_r-C₃₋₆ carbocyclic

 residue substituted with 0-3 R^{10e}, and (CH₂)_r-5-6

 membered heterocyclic system containing 1-4

 heteroatoms selected from N, O, and S, substituted

 with 0-2 R^{10e};
- R^{10d}, at each occurrence, is selected from C₃₋₈ alkenyl, C₃₋₈ alkynyl, methyl, CF₃, C₂₋₆ alkyl substituted with 0-3 R^{10e}, a (CH₂)_r-C₃₋₁₀ carbocyclic residue substituted with 0-3 R^{10e}, and a (CH₂)_r5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{10e};

 R^{10e} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $C(0)C_{1-6}$ alkyl, $C(0)OC_{1-6}$ alkyl, $C(1, F, Br, I, CN, NO_2, (CF_2)_rCF_3, (CH_2)_rOC_{1-5}$ alkyl, CH_2 oh, CH_2 oh,

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 R^{10f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;

 \mathbb{R}^{10g} is selected from methyl, ethyl, acetyl, and \mathbb{CF}_3 ;

 R^{10h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(O)R^{10f}$, $C(O)OR^{10i}$, and SO_2R^{10i} ;

 R^{10i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;

R¹³, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, $(CF_2)_wCF_3$, $(CH_2)_qNR^{13a}R^{13a'}$, $(CH_2)_qOH$, $(CH_2)_qOR^{13b}$, $(CH_2)_qSH$, $(CH_2)_qSR^{13b}$, $(CH_2)_wC(0)OH$, $(CH_2)_wC(0)R^{13b}$, $(CH_2)_wC(0)NR^{13a}R^{13a'}$, $(CH_2)_qNR^{13d}C(0)R^{13a}$, $(CH_2)_wC(0)OR^{13b}$, $(CH_2)_qOC(0)R^{13b}$, $(CH_2)_wS(0)_2NR^{13a}R^{13a'}$, $(CH_2)_qNR^{13d}S(0)_2R^{13b}$, and $(CH_2)_w$ -phenyl substituted with 0-3 R^{13c} ;

 R^{13a} and $R^{13a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;

- 5 R^{13b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;
- R^{13c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, and $(CH_2)_rNR^{13d}R^{13d}$;
- R^{13d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- R¹⁵, at each occurrence, is selected from =0, C_{1-8} alkyl, $(CH_2)_xC_{3-6}$ cycloalkyl, Cl, Br, I, F, NO_2 , CN, $(CHR')_xNR^{15a}R^{15a'}$, $(CHR')_xOH$, $(CHR')_xO(CHR')_rR^{15d}$, $(CHR')_xSH$, $(CHR')_xC(O)H$, $(CHR')_xC(O)OH$, $(CHR')_xC(O)(CHR')_xR^{15b}$, $(CHR')_xC(O)NR^{15a}R^{15a'}$, $(CHR')_xNR^{15f}C(O)(CHR')_xR^{15d}$, $(CHR')_xOC(O)NR^{15a}R^{15a'}$, $(CHR')_xNR^{15f}C(O)(CHR')_xR^{15b}$, $(CHR')_xC(O)O(CHR')_xR^{15d}$, $(CHR')_xNR^{15f}C(O)(CHR')_xR^{15b}$, $(CHR')_xC(O)O(CHR')_xR^{15d}$, $(CHR')_xOC(O)(CHR')_xR^{15b}$, $(CHR')_xC(CHR^{15f})NR^{15a}R^{15a'}$, $(CHR')_xNHC(CHR^{15f})NR^{15f}R^{15f}$, $(CHR')_xS(O)_p(CHR')_xR^{15b}$,
- R', C_{2-8} alkynyl substituted with 0-3 R', (CHR')_rphenyl substituted with 0-3 R^{15e}, and a (CH₂)_r-5-10 membered heterocyclic system containing

 $(CHR')_rS(0)_2NR^{15a}R^{15a'}$, $(CHR')_rNR^{15f}S(0)_2(CHR')_rR^{15b}$,

 C_{1-6} haloalkyl, C_{2-8} alkenyl substituted with 0-3

1-4 heteroatoms selected from N, O, and S, substituted with $0-2\ R^{15e}$;

- R', at each occurrence, is independently selected from

 H, C₁₋₆ alkyl, C₃₋₈ alkenyl, C₃₋₈ alkynyl, (CH₂)_rC₃₋₆

 cycloalkyl, and (CH₂)_rphenyl substituted with R^{15e};
- R^{15a} and $R^{15a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r-C_{3-10}$ are carbocyclic residue substituted with 0-5 R^{15e} , and a $(CH_2)_r-5-10$ membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e} ;
- alternatively, R^{15a} and R^{15a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{15h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;
 - R^{15b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-6} carbocyclic residue substituted with 0-3 R^{15e} , and $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e} ;

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R^{15d}, at each occurrence, is selected from C₃₋₈ alkenyl,

C₃₋₈ alkynyl, methyl, CF₃, C₂₋₆ alkyl substituted

with 0-3 R^{15e}, a (CH₂)_r-C₃₋₁₀ carbocyclic residue

substituted with 0-3 R^{15e}, and a (CH₂)_r5-6 membered

heterocyclic system containing 1-4 heteroatoms

selected from N, O, and S, substituted with 0-3 \mathbb{R}^{15e} ;

- R^{15e}, at each occurrence, is selected from C₁₋₆ alkyl,

 C₂₋₈ alkenyl, C₂₋₈ alkynyl, (CH₂)_rC₃₋₆ cycloalkyl,

 C(0)C₁₋₆ alkyl, C(0)OC₁₋₆ alkyl, Cl, F, Br, I, CN,

 NO₂, (CF₂)_rCF₃, (CH₂)_rOC₁₋₅ alkyl, OH, SH, (CH₂)_rSC₁₋₅ alkyl, (CH₂)_rNR^{15f}R^{15f}, (CH₂)_rphenyl, and a

 heterocycle substituted with 0-1 R^{15g}, wherein the

 heterocycle is selected from imidazole, thiazole,
 oxazole, pyrazole, 1,2,4-triazole, 1,2,3-triazole,
 isoxazole, and tetrazole,;
- R^{15f} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl;
 - R^{15g} is selected from methyl, ethyl, acetyl, and CF_3 ;
- R^{15h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, (CH₂)_rphenyl, C(O)R^{15f}, C(O)OR¹⁵ⁱ, and SO₂R¹⁵ⁱ;
 - R^{15i} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl;
- 25 R¹⁶, at each occurrence, is selected from C_{1-8} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, Cl, Br, I, F, NO₂, CN, $(CHR')_rNR^{16a}R^{16a'}$, $(CHR')_rOH$, $(CHR')_rO(CHR')_rR^{16d}$, $(CHR')_rSH$, $(CHR')_rC(O)H$, $(CHR')_rC(O)OH$, $(CHR')_rC(O)(CHR')_rR^{16b}$,
- 30 (CHR')_rC(O)NR^{16a}R^{16a}', (CHR')_rNR^{16f}C(O)(CHR')_rR^{16b}, (CHR')_rC(O)O(CHR')_rR^{16d}, (CHR')_rOC(O)(CHR')_rR^{16b}, (CHR')_rC(=NR^{16f})NR^{16a}R^{16a}',

 $\label{eq:chr'} \begin{tabular}{ll} $(CHR')_rNHC(=NR^{16f})NR^{16f}R^{16f}, & (CHR')_rS(O)_p(CHR')_rR^{16b}, \\ $(CHR')_rS(O)_2NR^{16a}R^{16a'}, & (CHR')_rNR^{16f}S(O)_2(CHR')_rR^{16b}, \\ C_{1-6} haloalkyl, C_{2-8} alkenyl substituted with $0-3$ $R', C_{2-8} alkynyl substituted with $0-3$ $R', $and $(CHR')_rphenyl substituted with $0-3$ $R^{16e}; \\ \end{tabular}$

 R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-5 R^{16e} , and a $(CH_2)_r$ -5-10 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{16e} ;

alternatively, R^{16a} and R^{16a'}, along with the N to which
they are attached, join to form a 5-6 membered
heterocyclic system containing 1-2 heteroatoms
selected from NR^{16h}, O, and S and optionally fused
with a benzene ring or a 6-membered aromatic
heterocycle;

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- R^{16b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-8} alkenyl, C_{3-8} alkynyl, a $(CH_2)_rC_{3-6}$ carbocyclic residue substituted with 0-3 R^{16e} , and a $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{16e} ;
- R^{16d} , at each occurrence, is selected from C_{3-8} alkenyl, C_{3-8} alkynyl, C_{1-6} alkyl substituted with 0-3 R^{16e} , a $(CH_2)_r$ - C_{3-10} carbocyclic residue substituted with 0-3 R^{16e} , and a $(CH_2)_r$ -5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, 0, and S, substituted with 0-3 R^{16e} ;

R^{16e}, at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, OH, SH, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rNR^{16f}R^{16f}$, and $(CH_2)_r$ phenyl;

 R^{16f} , at each occurrence, is selected from H, C_{1-5} alkyl, and C_{3-6} cycloalkyl, and phenyl;

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- R^{16h} is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, $(CH_2)_r$ phenyl, $C(O)R^{16f}$, $C(O)OR^{16i}$, and SO_2R^{16i} ;
- R^{16i} , at each occurrence, is selected from C_{1-6} alkyl, 15 C_{3-6} cycloalkyl;
 - m, at each occurrence, is independently selected from 0,
 1, and 2;
- 20 t, at each occurrence, is independently selected from 1
 and 2;
 - w, at each occurrence, is independently selected from 0
 and 1;

- r, at each occurrence, is independently selected from 0,
 1, 2, 3, 4, and 5;
- q, at each occurrence, is independently selected from 1,
 30 2, 3, 4, and 5; and
 - p, at each occurrence, is independently selected from 0, 1, and 2.

2. The compound of claim 1, wherein:

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 R^4 is absent, taken with the nitrogen to which it is attached to form an N-oxide, or selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, and $(CH_2)_r$ -phenyl substituted with 0-3 R^{4c} ;

 R^{4c} , at each occurrence, is selected from C_{1-6} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, C_{3-6} cycloalkyl, C_{1} , F_{1} , C_{1} , C_{1} , C_{2} , C_{2} , C_{3} , C_{1} , C_{1} , C_{1} , C_{2} , C_{3} , C_{1} , C_{1} , C_{2} , C_{2} , C_{3} , C_{3} , C_{1} , C_{2} , C_{3} , C_{1} , C_{2} , C_{2} , C_{3} , $C_{$

 R^1 and R^2 are independently selected from H and C_{1-4} 15 alkyl;

 R^6 , at each occurrence, is selected from C_{1-4} alkyl, C_{2-8} alkenyl, C_{2-8} alkynyl, $(CH_2)_rC_{3-6}$ cycloalkyl, $(CF_2)_rCF_3$, CN, $(CH_2)_rOH$, $(CH_2)_rOR^{6b}$, $(CH_2)_rC$ (O) R^{6b} , $(CH_2)_rC$ (O) $R^{6a}R^{6a'}$, $(CH_2)_rNR^{6d}C$ (O) R^{6a} , and $(CH_2)_t$ phenyl substituted with 0-3 R^{6c} ;

 R^{6a} and $R^{6a^{\prime}},$ at each occurrence, are selected from H, C_{1-6}

25 alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{6c} ;

 R^{6b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6}

30 cycloalkyl, and phenyl substituted with 0-3 R6c;

 R^{6c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, and $(CH_2)_rNR^{6d}R^{6d}$;

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- R^{6d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;
- R¹³, at each occurrence, is selected from C_{1-4} alkyl, C_{3-1} 6 cycloalkyl, $(CH_2)NR^{13a}R^{13a'}$, $(CH_2)OH$, $(CH_2)OR^{13b}$, $(CH_2)_wC(O)R^{13b}$, $(CH_2)_wC(O)NR^{13a}R^{13a'}$, $(CH_2)NR^{13d}C(O)R^{13a}$, $(CH_2)_wS(O)_2NR^{13a}R^{13a'}$, $(CH_2)NR^{13d}S(O)_2R^{13b}$, and $(CH_2)_w$ -phenyl substituted with 0-3 R^{13c} ;

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- R^{13a} and $R^{13a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;
- 20 R^{13b} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, and phenyl substituted with 0-3 R^{13c} ;
- R^{13c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rOH$, and $(CH_2)_rNR^{13d}R^{13d}$;
 - R^{13d} , at each occurrence, is selected from H, C_{1-6} alkyl, and C_{3-6} cycloalkyl;

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q is selected from 1, 2, and 3; and

r is selected from 0, 1, 2, and 3.

3. The compound of claims 1-2, wherein:

 R^3 is selected from a methyl substituted with 0-1 R^{10} , 5 C_{2-8} alkyl substituted with 0-3 R⁷, a $(CR^{3}'H)_r$ carbocyclic residue substituted with 0-5 R¹⁵. wherein the carbocyclic residue is selected from phenyl, C₃₋₆ cycloalkyl, naphthyl, and adamantyl; and a (CR3'H)_r-heterocyclic system substituted with 10 0-3 R^{15} , wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, 15 imidazolyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahycrofuranyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-20 triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and

R⁵ is selected from (CR⁵'H)_t-phenyl substituted with 0-5

R¹⁶; and a (CR⁵'H)_t-heterocyclic system substituted with 0-3 R¹⁶, wherein the heterocyclic system is selected from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl,

tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl.

4. The compound of claims 1-3, wherein

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Ring B is a 5 or 6 membered heterocycle ring wherein the heterocycle ring includes $-NR^9-$, -O-, $-S(O)_p-$, $-NR^{9d}C(O)-$, $-C(O)NR^{9d}-$, -C(O)O-, -OC(O)-, $-NR^{9d}C(O)NR^{9d}$, $-NR^{9d}C(O)O-$, $-OC(O)NR^{9d}-$, $-NR^{9d}S(O)_2-$, or $-S(O)_2NR^{9d}$, the heterocycle ring being optionally substituted by 0-2 R^8 ;

R⁹ is selected from H, CH₃, C₂₋₆ alkyl substituted with 0-3 R^{9a}, C₃₋₈ alkenyl, C₃₋₈ alkynyl, C₁₋₃ haloalkyl, $(CH_2)_rC(0)C_{1-6}$ alkyl substituted with 0-2 R^{9j}, $(CH_2)_rC(0)OC_{1-6}$ alkyl substituted with 0-3 R^{9b}, $(CH_2)_rC(0)NR^{9d}R^{9d'}$, $(CH_2)_rS(0)_2C_{1-6}$ alkyl, $S(0)_2C_{1-6}$ trifluoromethyl, $(CH_2)_rC(0)R^{9'}$, $(CH_2)_rC(0)NR^{9d}R^{9'}$, $(CH_2)_rS(0)_2R^{9'}$, $(CH_2)_rS(0)_2R^{9'}$, and $(CH_2)_rS(0)_2NR^{9d}R^{9'}$;

20

R^{9'}, at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl substituted with 0-3 R^{9e}, wherein the cycloalkyl is selected from cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR')_rphenyl substituted with 0-3 R^{9c}, (CHR')_r5-6 membered heterocycle system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{9c}, wherein the heterocycle is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl, tetrahydrothiopyranyl dioxide, thiophene, imidazolyl, pyrrolidinyl,

pyrrolyl, thiazolyl, and furanyl, and (CHR')_rphenyl substituted with 0-3 $\rm R^{9c}$;

- R^{9a} , at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, $S(O)_p$ -methyl, $S(O)_p$ -ethyl, $S(O)_p$ -propyl, and $NR^{9d}R^{9d'}$;
- R^{9b}, at each occurrence, is selected from cyclopropyl,

 cyclbutyl, cyclpentyl, CN, CF₃, CH₂₋OC₁₋₅ alkyl,

 CH₂₋OH, CH₂₋SC₁₋₅ alkyl, and CH₂-NR^{9d}R^{9d'};
- R^{9c} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, C_{1} , C_{1} , C_{1} , C_{1} , C_{1} , C_{1} , C_{2} , C_{2} , C_{2} , C_{3} , C_{1} , C_{2} , C_{1} , C_{2} , C_{2} , C_{2} , C_{3} , C_{1} , C_{2} , C_{2} , C_{3} , C_{2} , C_{3} , C_{2} , C_{3} - provided that if R^{9c} is attached to a carbon attached to the nitrogen on Ring B, then R^{9c} is selected from $(CH_2)_qOH$, $(CH_2)_qOC_{1-5}$ alkyl, $(CH_2)_qSC_{1-5}$ alkyl, $(CH_2)_qNR^{9d}R^{9d}$;
- 25 R^{9d} and R^{9d'}, at each occurrence, are independently selected from H, methyl, ethyl, propyl, i-propyl, butyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and phenyl;
- 30 R^{9e} , at each occurrence, is selected from C_{1-6} alkyl, C_{3-6} cycloalkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, $(CH_2)_rOC_{1-5}$ alkyl, $(CH_2)_rC(0)OC_{1-5}$ alkyl,

 $(CH_2)_rC(O)NR^{9d}R^{9d'}$, $(CH_2)_rOH$, $(CH_2)_rSC_{1-5}$ alkyl, $(CH_2)_rS(O)_pC_{1-5}$ alkyl, and $(CH_2)_rNR^{9d}R^{9d'}$, or alternatively, two R^{9e} on the same carbon atom form =0; and

5

R^{9j}, at each occurrence, is selected from cyclpropyl, cyclobutyl, cyclopentyl, CN, CF₃, O-methyl, O-ethyl, O-propyl, O-i-propyl, O-butyl, OH, S-methyl, S-ethyl, and NR^{9d}R^{9d'}.

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5. The compound of claims 1-4, wherein the compound of formula (I) is:

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Z is selected from O, S, NCN, and NCONH2;

R¹⁶, at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F, $(CH_2)_rNR^{16a}R^{16a'}$, NO_2 , CN, OH, $(CH_2)_rOR^{16d}$, $(CH_2)_rC(O)R^{16b}$, $(CH_2)_rC(O)NR^{16a}R^{16a'}$, $(CH_2)_rNR^{16f}C(O)R^{16b}$, $(CH_2)_rS(O)_pR^{16b}$, $(CH_2)_rS(O)_2NR^{16a}R^{16a'}$, $(CH_2)_rNR^{16f}S(O)_2R^{16b}$, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

25

 R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

 R^{16b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

- 5 R^{16d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
- R^{16e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-10}$ S_1 alkyl; and
 - $\mbox{R}^{16f},$ at each occurrence, is selected from H, and \mbox{C}_{1-5} alkyl.
- 15 6. The compound of claims 1-4, wherein the compound formula (I) is:

- 20 Z is selected from O, S, NCN, and NCONH2;
 - R^{16} , at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F, $(CH_2)_rNR^{16a}R^{16a'}$, NO_2 , CN, OH, $(CH_2)_rOR^{16d}$,
- 25 $(CH_2)_rC(O)R^{16b}$, $(CH_2)_rC(O)NR^{16a}R^{16a}$, $(CH_2)_rNR^{16f}C(O)R^{16b}$, $(CH_2)_rS(O)_pR^{16b}$, $(CH_2)_rS(O)_2NR^{16a}R^{16a}$, $(CH_2)_rNR^{16f}S(O)_2R^{16b}$, and $(CH_2)_rphenyl$ substituted with 0-3 R^{16e} ;

 R^{16a} and $R^{16a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;

- 5 R^{16b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{16e} ;
- R^{16d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
 - R^{16e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and

 R^{16f} , at each occurrence, is selected from H, and C_{1-5} alkyl.

7. The compound of claims 1-5, wherein:

Ring B is a 5 or 6 membered saturated heterocycle ring, wherein the heterocycle ring is selected from piperidine, tetrahydropyran, tetrahydrothiopyran, tetrahydrothiopyran 1,1-dioxide,

tetrahydrothiopyran 1-monooxide, piperidin-2-one, tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, pyrrolidin-2-one, dihydrofuran-2-one, and isothiazolidine 1,1-dioxide, the heterocycle ring being optionally substituted by 0-2 R8;

 R^5 is CH_2 phenyl substituted with 0-3 R^{16} ;

r is selected from 0, 1, and 2.

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8. The compound of claims 1-4 and 6, wherein:

Ring B is a 5 or 6 membered saturated heterocycle ring,

wherein the heterocycle ring is selected from
piperidine, tetrahydropyran, tetrahydrothiopyran,
tetrahydrothiopyran 1,1-dioxide,
tetrahydrothiopyran 1-monooxide, piperidin-2-one,
tetrahydropyran-2-one, [1,2]thiazinane 1,1-dioxide,
pyrrolidine, tetrahydrofuran, tetrahydrothiophene,
pyrrolidin-2-one, dihydrofuran-2-one, and
isothiazolidine 1,1-dioxide, the heterocycle ring
being optionally substituted by 0-2 R8;

- 15 R^5 is CH_2 phenyl substituted with 0-3 R^{16} ; and r is selected from 0, 1, and 2.
- 9. The compound of claims 1-5 and 7, wherein: 20

J is selected from CH_2 and CHR^5 ;

K is selected from CH2 and CHR5;

25 L is CHR^5 ;

R³ is selected from a C₃₋₁₀ carbocyclic residue
substituted with 0-3 R¹⁵, wherein the carbocyclic
residue is selected from cyclopropyl, cyclobutyl,
cyclopentyl, cyclohexyl, phenyl, naphthyl and
adamantyl, and a (CR³'H)_r-heterocyclic system
substituted with 0-3 R¹⁵, wherein the heterocyclic
system is selected from pyridinyl, thiophenyl,
furanyl, indazolyl, benzothiazolyl, benzimidazolyl,

benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indolyl, indolinyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahycrofuranyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and

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R¹⁵, at each occurrence, is selected from C_{1-8} alkyl, $(CH_2)_rC_{3-6}$ cycloalkyl, CF_3 , Cl, Br, I, F, $(CH_2)_rNR^{15a}R^{15a'}$, NO_2 , CN, OH, $(CH_2)_rOR^{15d}$, $(CH_2)_rC(O)R^{15b}$, $(CH_2)_rC(O)NR^{15a}R^{15a'}$,

15 $(CH_2)_rNR^{15f}C(O)R^{15b}, (CH_2)_rNR^{15f}C(O)O(CHR')_rR^{15d},$ $(CH_2)_rOC(O)NR^{15a}R^{15a'}, (CH_2)_rS(O)_pR^{15b},$ $(CH_2)_rS(O)_2NR^{15a}R^{15a'}, (CH_2)_rNR^{15f}S(O)_2R^{15b},$ $(CH_2)_rphenyl \ substituted \ with \ 0-3 \ R^{15e}, \ and \ a$ $(CH_2)_r-5-6 \ membered \ heterocyclic \ system \ containing$

1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e}, wherein the heterocyclic system is selected from tetrazolyl, piperidinyl, pyrrolidinyl, imidazolyl, thiazolyl, pyrazolyl, pyridyl, thienyl, furanyl, pyrrolyl, oxazolyl,

isoxazolyl, triazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, morpholinyl, oxadiazolyl, and thiadiazolyl;

 R^{15a} and $R^{15a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;

alternatively, R^{15a} and R^{15a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{15h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

- R^{15b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;
- R^{15d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;
- 15 R^{15e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and
- R^{15f} , at each occurrence, is selected from H, and C_{1-5} 20 alkyl.
 - 10. The compound of claims 1-4, 6 and 8, wherein:
 - K is selected from CH_2 and CHR^5 ;
- L is CHR⁵;

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R³ is selected from a C₃₋₁₀ carbocyclic residue substituted with 0-3 R¹⁵, wherein the carbocyclic residue is selected from cyclopropyl, cyclopentyl, cyclohexyl, phenyl, naphthyl and adamantyl, and a (CR³'H)_r-heterocyclic system substituted with 0-3 R¹⁵, wherein the heterocyclic system is selected

from pyridinyl, thiophenyl, furanyl, indazolyl, benzothiazolyl, benzimidazolyl, benzothiophenyl, benzofuranyl, benzoxazolyl, benzisoxazolyl, quinolinyl, isoquinolinyl, imidazolyl, indazolyl, isoxazolinyl, morpholinyl, pyrrolidinyl, tetrahydropyranyl, tetrahydrofuranyl, indolyl, indolinyl, isoindolyl, isothiadiazolyl, isoxazolyl, piperidinyl, pyrrazolyl, 1,2,4-triazolyl, 1,2,3-triazolyl, tetrazolyl, thiadiazolyl, thiazolyl, oxazolyl, pyrazinyl, and pyrimidinyl; and

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 ${\tt R}^{15},$ at each occurrence, is selected from ${\tt C}_{1-8}$ alkyl, (CH₂)_rC₃₋₆ cycloalkyl, CF₃, Cl, Br, I, F, (CH₂)_rNR^{15a}R^{15a}, NO₂, CN, OH, (CH₂)_rOR^{15d}, $(CH_2)_rC(O)R^{15b}$, $(CH_2)_rC(O)NR^{15a}R^{15a}$, 15 $(CH_2)_rNR^{15f}C(O)R^{15b}$, $(CH_2)_rNR^{15f}C(O)O(CHR')_rR^{15d}$. $(CH_2)_rOC(O)NR^{15a}R^{15a'}$, $(CH_2)_rS(O)_pR^{15b}$, $(CH_2)_rS(0)_2NR^{15a}R^{15a'}$, $(CH_2)_rNR^{15f}S(0)_2R^{15b}$, (CH₂)_rphenyl substituted with 0-3 R^{15e}, and a 20 (CH₂)_r-5-6 membered heterocyclic system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-2 R^{15e}, wherein the heterocyclic system is selected from tetrazolyl, piperidinyl, pyrrolidinyl, imidazolyl, thiazolyl, pyrazolyl, 25 pyridyl, thienyl, furanyl, pyrrolyl, oxazolyl, isoxazolyl, triazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, morpholinyl, oxadiazolyl, and thiadiazolyl;

30 R^{15a} and $R^{15a'}$, at each occurrence, are selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;

alternatively, R^{15a} and R^{15a'}, along with the N to which they are attached, join to form a 5-6 membered heterocyclic system containing 1-2 heteroatoms selected from NR^{15h}, O, and S and optionally fused with a benzene ring or a 6-membered aromatic heterocycle;

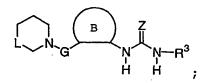
 R^{15b} , at each occurrence, is selected from H, C_{1-6} alkyl, C_{3-6} cycloalkyl, and $(CH_2)_r$ phenyl substituted with 0-3 R^{15e} ;

 R^{15d} , at each occurrence, is selected from C_{1-6} alkyl and phenyl;

15 R^{15e} , at each occurrence, is selected from C_{1-6} alkyl, Cl, F, Br, I, CN, NO_2 , $(CF_2)_rCF_3$, OH, and $(CH_2)_rOC_{1-5}$ alkyl; and

 R^{15f} , at each occurrence, is selected from H, and C_{1-5} 20 alkyl

11. The compound of claims 1-5, wherein the compound of formula (I) is:



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G is selected from CH2 and C=0;

L is CHR⁵;

30 B is selected from piperidine, tetrahydropyran, tetrahydrothiopyran, pyrrolidinyl,

tetrahydrofuranyl, tetrahydrothiophenyl, tetrahydrothiophene 1-oxide, and tetrahydrothiophene 1,1-dioxide;

5 R³ is selected from phenyl substituted with 1-2 R¹⁵,
-CH₂-CH₂-morpholin-1-yl substituted with 1-2 R¹⁵,
indazolyl substituted with 1-2 R¹⁵, pyrazolyl
substituted with 1-2 R¹⁵ or thiazolyl substituted
with 1-2 R¹⁵;

- R^5 is selected from a CH_2 -phenyl substituted with 1-2 R^{16} ;
- R⁹ is selected from H, C₂₋₆ alkyl substituted with 0-3

 R^{9a}, wherein the alkyl is selected from methyl,
 ethyl, propyl, i-propyl, butyl, i-butyl, s-butyl,
 t-butyl, neo-pentyl; -CH₂CH=CH₂; -CH₂C≡CH; 2fluoroethyl, 2,2-difluoroethyl, 2,2,2trifluoroethyl, (CH₂)_rC(0)C₁₋₆ alkyl substituted

 with 0-2 R^{9j}, wherein the alkyl is selected from
 methyl, ethyl, propyl, i-propyl, butyl, t-butyl;
 C(0)Omethyl, C(0)Ot-butyl, SO₂methyl, SO₂ethyl,
 SO₂propyl, SO₂i-propyl, SO₂t-butyl, SO₂CF₃,
 (CH₂)_rC(0)NR^{9d}R^{9d'}; (CH₂)_rC(0)R^{9'}, (CH₂)_rC(0)NR^{9d}R^{9'},

 (CH₂)_rS(0)₂R^{9'}, R^{9'}, and (CH₂)_rS(0)₂NR^{9d}R^{9'};
- R^{9'}, at each occurrence, is independently selected from (CHR')_rC₃₋₆ cycloalkyl, wherein the cycloalkyl is selected from cyclopropyl, cyclobutyl, cyclopentyl, and cyclohexyl, (CHR')_rphenyl substituted with 0-3 R^{9c}, (CHR')_r5-6 membered heterocycle system containing 1-4 heteroatoms selected from N, O, and S, substituted with 0-3 R^{9c}, wherein the

heterocycle is selected from oxadiazolyl, morpholinyl, piperidinyl, tetrahydropyranyl, tetrahydrothiopyranyl tetrahydrothiopyranyl dioxide, thiophene, imidazolyl, pyrrolidinyl, pyrrolyl, thiazolyl, and furanyl, and (CHR')rphenyl substituted with 0-3 R^{9c};

R^{9a}, at each occurrence, is selected from CN, O-methyl, O-ethyl, CF₃, OH, OC(O)-methyl, S-methyl, S-ethyl, S-propyl, S(O)_p-methyl, S(O)_p-ethyl, S(O)_p-propyl, and NR^{9d}R^{9d'};

5

- R^{9c}, at each occurrence, is selected from methyl, ethyl,
 propyl, C(0)-methyl, C(0)0-t-butyl;
- R^{9d} and R^{9d'}, at each occurrence, are independently selected from H; methyl, ethyl, propyl, i-propyl, butyl, t-butyl;
- R^{9j}, at each occurrence, is selected from O-methyl, 20 O-ethyl, and NR^{9d}R^{9d'};
- R¹⁵ is selected from Me, CF₃, OMe, OCF₃, F, Cl, Br, OH,
 OMe, C(O)Me, CH(OH)Me, CN, CO₂Me, CO₂Et, SO₂NH₂,
 NHC(O)Me, C(O)NH₂, C(O)NHMe, C(O)NHCH₂CH₂OMe,
 C(O)piperidinyl, C(O)pyrrolidinyl, C(O)morpholinyl,
 and a 5-6 membered heterocyclic system, wherein the
- heterocyclic system is selected from tetrazolyl, indazolyl, pyrazolyl, triazolyl, morpholinyl, and thiazolyl, the heterocyclic system substituted with 0-2 R^{15e}:

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R<sup>16</sup> is selected from F, Cl, Br, and I;
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12. The compound of claim 1 wherein the compound is selected from:

- (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester;
- 10
 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-4-yl}urea;
- 15 (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-ureido}-piperidine-1-carboxylic acid_t-butyl ester;
- 20 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1carbonyl]-piperidin-4-yl}-3-[3-(1-methyl-1Htetrazol-5-yl)-phenyl]-urea;
- 1-{1-(2,2-Dimethyl-propionyl)-3-[(3R,4R)-3-((S)-4fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-{1-Acetyl-3-[(3R,4R)-3-((S)-4-fluoro-benzyl)piperidine-1-carbonyl]-piperidin-4-yl}-3-[3-(1methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3R, 4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;

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1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-1-methyl-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
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- 5 5-(3-{(3R,4R)-1-tert-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester;
- 5-(3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester;

- (3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]piperidine-1-carboxylic acid t-butyl ester;
 - 1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-urea;
- 20
 (3R,4S)-3-[3-(3-acetyl-phenyl)-ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-carboxylic acid t-butyl ester;
- 25 1-(3-acetyl-phenyl)-3-{(3R,4R)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-piperidin-3-yl}urea;
- (3R,4R)-4-[3-(3-acetyl-phenyl)-ureido]-3-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1carboxylic acid t-butyl ester;
- 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;

```
1-{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-
    piperidin-1-ylmethyl]-piperidin-4-yl}-3-(3-acetyl-
    phenyl)-urea;
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- 5 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-urea;
- 1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-4-yl}-urea;
- 1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-isobutyl-piperidin-4-yl}-urea;
 - (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1 ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl) phenyl]-ureido}-piperidine-1-carboxylic acid t butyl ester;
 - 1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;

- 25
 5-(3-{(3R,4R)-1-t-butoxycarbonyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}ureido)-indazole-1-carboxylic acid t-butyl ester;
- 30 5-(3-{(3S,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-ureido)-indazole-1-carboxylic acid t-butyl ester;
- (3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid t-butyl ester;

```
1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3S, 4R)-3-[(S)-3-
           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-
           4-yl}-urea;
 5
      (3R, 4R) - 4 - [3 - (3 - acetyl-phenyl) - ureido] - 3 - [(S) - 3 - (4 - acetyl-phenyl)]
           fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
           carboxylic acid t-butyl ester;
     1-(3-acetyl-phenyl)-3-{(3R,4S)-4-[(S)-3-(4-fluoro-
10
           benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
      (3S, 4R) - 4 - [3 - (3 - acetyl-phenyl) - ureido] - 3 - [(S) - 3 - (4 - acetyl-phenyl)]
           fluoro-benzyl)-piperidine-1-carbonyl]-piperidine-1-
           carboxylic acid t-butyl ester;
15
     1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
           benzyl)-piperidine-1-carbonyl]-piperidin-4-yl}-
          urea;
20
     (3R, 4R) - 4 - [3 - (3 - acetyl - phenyl) - ureido] - 3 - [(S) - 3 - (4 - acetyl - phenyl)]
           fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
           carboxylic acid methyl ester;
     1-(3-acetyl-phenyl)-3-\{(3R,4R)-1-(2,2-dimethyl-1)\}
25
           propionyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
           ylmethyl]-piperidin-4-yl}-urea;
     (3R, 4S) - 3 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 4 -
           [(S)-3-(4-fluoro-benzyl)-piperidine-1-carbonyl]-
30
          piperidine-1-carboxylic acid t-butyl ester;
     1-(3-acetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
          benzyl)-piperidin-1-ylmethyl]-1-(2-fluoro-ethyl)-
          piperidin-4-yl}-urea;
35
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 $1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-$

```
benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-propyl)-
                                              piperidin-4-yl}-urea;
                       1-(3-acetyl-phenyl)-3-{(3R,4S)-4-[(S)-3-(4-fluoro-
                                             benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-3-
                                             yl}-urea;
                       1-\{(3R,4S)-1-Acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)
   10
                                             piperidin-1-ylmethyl]-piperidin-3-yl}-3-(3-acetyl-
                                             phenyl)-urea;
                       1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-
                                             piperidin-1-ylmethyl]-piperidin-4-yl}-3-(1-methyl-
  15
                                              1H-tetrazol-5-yl)-urea;
                      1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                             ylmethyl]-1-methyl-piperidin-4-yl}-3-(1-methyl-1H-
                                             tetrazol-5-yl)-urea;
  20
                      1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (3R, 4R) - (3R,
                                            ylmethyl]-1-methanesulfonyl-piperidin-4-vl}-3-(1-
                                            methyl-1H-tetrazol-5-yl)-urea;
 25
                     1-\{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
                                            carbonyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-[3-(1-
                                            methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                     1-{(3R, 4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
 30
                                            carbonyl]-1-(2-fluoro-ethyl)-piperidin-4-yl}-3-[3-
                                             (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                    1-{(3R,4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
                                           carbonyl]-1-trifluoromethanesulfonyl-piperidin-4-
35
                                          yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea:
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1-(3-Acetyl-phenyl)-3-{(2S,3R)-2-[(S)-3-(4-fluoro-
                              benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-
                              yl}-urea;
    5
               1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - 3 - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - 2 - [(S) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - piperidin - 1 - \{(2S, 3R) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl) - \{(2S, 3R) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl) - \{(2S, 3R) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl) - \{(2S, 3R) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl) - \{(2S, 3R) - (4 - Fluoro - benzyl) - (4 - Fluoro - benzyl
                              ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
                              tetrazol-5-yl)-phenyl]-urea;
 10
               1-{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-
                             ylmethyl]-tetrahydro-pyran-3-yl}-3-(5-acetyl-4-
                             methyl-thiazol-2-yl)-urea;
               1-(3-Acetyl-phenyl)-3-\{(2S,3R)-2-[(S)-3-(4-fluoro-
 15
                             benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-3-
                             yl}-urea;
               1-\{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
                             carbonyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
20
                             tetrazol-5-yl)-phenyl]-urea;
              1-\{(2S,3R)-2-[(S)-3-(4-Fluoro-benzyl)-piperidine-1-
                             carbonyl]-tetrahydro-pyran-3-yl}-3-(5-acetyl-4-
                             methyl-thiazol-2-yl)-urea;
25
              1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                             ylmethyl]-1-methyl-piperidin-4-yl}-3-(5-acetyl-4-
                             methyl-thiazol-2-yl)-urea;
30
             1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-4-fluoro-benzyl)-4-fluoro-benzyl)
                             piperidin-1-ylmethyl]-piperidin-4-yl}-3-(5-acetyl-
                             4-methyl-thiazol-2-yl)-urea;
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- 5 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-(5-acetyl-4-methyl-thiazol-2-yl)-urea;
- 1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-fluoroethyl)-piperidin-4-yl}-3-(5acetyl-4-methyl-thiazol-2-yl)-urea;
- 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-oxopropyl)-piperidin-4-yl}-3-(5-acetyl-4-methyl-thiazol-2-yl)-urea;
 - 1-(3-Acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-4yl}-urea;
 - 1-{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 25 1-{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-4-yl}-3-(5-acetyl-4-methyl-thiazol-2-yl)-urea;

- 1-(3-Acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-4yl}-urea;
- 1-{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidine-1-carbonyl]-tetrahydro-pyran-4-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;

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1-\{(3R,4R)-3-[(S)3-(4-Fluoro-benzyl)-piperidine-1-
                                               carbonyl]-tetrahydro-pyran-4-yl}-3-(5-acetyl-4-
                                               methyl-thiazol-2-yl)-urea;
       5
                        1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                              ylmethyl]-piperidin-4-yl}-3-(4-fluoro-phenyl)-urea;
                         (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
  10
                                              ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-
                                              piperidine-1-carboxylic acid t-butyl ester;
                       1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-fluoro-benzyl)-1-((S)-6-(4-f
                                              piperidin-1-ylmethyl]-piperidin-4-yl}-3-(4-fluoro-
  15
                                              phenyl) -urea;
                       1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                              ylmethyl]-1-methyl-piperidin-4-yl}-3-(4-fluoro-
                                             phenyl) -urea;
  20
                      1-{(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                             ylmethyl]-1-ethyl-piperidin-4-yl}-3-(4-fluoro-
                                             phenyl) -urea;
 25
                      1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                             ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
                                             4-y1}-3-(4-fluoro-phenyl)-urea;
                      2-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
 30
                                            ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-piperidin-
                                             1-yl}-N-isopropyl-acetamide;
                     1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - \{(3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - 1 - (4 - fluoro - benzyl) - piperidin - (4 - fluoro - benzyl) - (4 - fluoro - benz
                                            ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-(4-
35
                                             fluoro-phenyl)-urea;
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 $1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-$

```
benzyl)-piperidin-1-ylmethyl]-[1,4']bipiperidinyl-
                               4-y1}-urea;
    5
               1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-3-(4-fluoro-benzyl)-1-\{(S)-4-(4-fluoro-benzyl)-1-\{(S)-4-(4-fluoro-benzyl)-1-\{(S)-4-(4-fluoro-benzyl)-1-\{(S)-
                              piperidin-1-ylmethyl]-[1,4']bipiperidinyl-4-yl}-3-
                                (3-acetyl-phenyl)-urea;
 10
               1-(3-acetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
                              benzyl)-piperidin-1-ylmethyl]-1'-methyl-
                               [1,4']bipiperidinyl-4-yl}-urea;
               1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
 15
                              benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
                (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - 
                              ylmethyl]-4-[3-(3,5-diacetyl-phenyl)-ureido]-
                              piperidine-1-carboxylic acid t-butyl ester;
 20
              1-(3,5-diacetyl-phenyl)-3-(3R,4R)-1-acetyl-3-[(S)-3-(4-
                              fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
                              yl}-urea;
25
              1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
                              benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-4-
                              yl}-urea;
              1-(3,5-diacetyl-phenyl)-3-{(3S,4R)-3-[(S)-3-(4-fluoro-
30
                             benzyl)-piperidin-1-ylmethyl]-1-ethyl-piperidin-4-
                             yl}-urea;
              1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
```

benzyl)-piperidin-1-ylmethyl]-1-[1,2,4]oxadiazol-3-

ylmethyl-piperidin-4-yl}-urea;

```
2-\{(3R, 4R)-3-[(S)-3-(4-Fluoro-benzyl)-piperidin-1-
          ylmethyl]-4-[3-(3,5-diacetyl-phenyl)-ureido]-
          piperidin-1-yl}-N-isopropyl-acetamide;
 5
     1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-
          benzyl)-piperidin-1-ylmethyl]-1-propargyl-
          piperidin-4-yl}-urea;
10
     (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - 
          ylmethyl]-4-{3-[3-(1-methyl-1H-tetrazol-5-yl)-}
          phenyl]-ureido}-piperidine-1-carboxylic acid methyl
          ester;
15
     1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-piperidin-4-yl}-5-[3-methyl-5-(1-methyl-
          1H-tetrazol-5-yl)-phenyl]-urea;
     (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
20
          ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-
          yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-
          butyl ester;
     1-\{(3R,4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-4-fluoro-benzyl)-4-fluoro-benzyl)
25
          piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-methyl-
          5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
    1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methyl-piperidin-4-yl}-3-[3-methyl-5-
30
          (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
    1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-ethyl-piperidin-4-yl}-3-[3-methyl-5-(1-
          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
```

```
1-{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
                           4-y1}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-
                          phenyl]-urea;
    5
             2-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-
                          yl)-phenyl]-ureido}-piperidin-1-yl}-N-isopropyl-
                          acetamide;
 10
             1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-[3-
                          methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 15
             1-{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-piperidin-4-yl}-3-[3-bromo-5-(1-methyl-
                          1H-tetrazol-5-yl)-phenyl]-urea;
             (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - 
20
                         ylmethyl]-4-{3-{3-bromo-5-(1-methyl-1H-tetrazol-5-
                         yl)-phenyl]-ureido}-piperidine-1-carboxylic acid t-
                         butyl ester;
            1-\{(3R, 4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R, 4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((3R, 4R)-1-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-3-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fluoro-benzyl)-1-((S)-(4-fl
25
                         piperidin-1-ylmethyl]-piperidin-4-yl}-3-[3-bromo-5-
                          (1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
            1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-methyl-piperidin-4-yl}-3-[3-bromo-5-(1-
30
                         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
            1-\{(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-ethyl-piperidin-4-yl}-3-[3-bromo-5-(1-
                         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
35
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1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-1-[1,2,4]oxadiazol-3-ylmethyl-piperidin-
                           4-y1}-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-y1)-
                           phenyl]-urea;
   5
             2-\{(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-4-{3-[3-bromo-5-(1-methyl-1H-tetrazol-5-
                           yl)-phenyl]-ureido}-piperidin-1-yl}-N-isopropyl-
                           acetamide;
 10
             1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-prop-2-ynyl-piperidin-4-yl}-3-[3-bromo-
                           5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
15
                          ylmethyl] -1 - (2 - oxo - propyl) - piperidin - 4 - yl] -3 - [3 - (1 - yl)] - [3 - yl)] - [3 - (1 - yl)] - [3 - yl)] - [3 - (1 - yl)] - [3 - yl)] - [3 - (1 - yl)] - [3 - yl)
                          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
             1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
20
                          ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-(1-
                          methyl-pyrazol-3-yl)-urea;
             1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl}-3-
25
                          (thiazol-2-yl)-urea;
            2-\{3-[(3R,4R)-3-[(S)-3-(4-fluoro-benzy1)-piperidin-1-
                         ylmethyl]-1-(2-oxo-propyl)-piperidin-4-yl]-ureido}-
                          4-methyl-thiazole-5-carboxylic acid ethyl ester;
30
             (3R, 4R) -3-[(S) -3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-4-(5-acetyl-4-methyl-thiazol-2-yl)-
                         ureido}-piperidine-1-carboxylic acid methyl ester;
```

```
(3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - 5 - acetyl - 4 - a
                                             [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                           piperidine-1-carboxylic acid 3-hydroxy-2,2-
                                           dimethyl-propyl ester;
      5
                      1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                                           propionyl-piperidin-4-yl}-urea;
  10
                      1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                                           cyclopropanecarbonyl-3-[(S)-3-(4-fluoro-benzyl)-
                                           piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
  15
                                           cyclopentanecarbonyl-3-[(S)-3-(4-fluoro-benzyl)-
                                          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                            (4-fluoro-benzyl)-piperidin-1-ylmethyll-1-
 20
                                            (tetrahydro-pyran-4-carbonyl)-piperidin-4-yl]-urea;
                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                                         methoxy-acetyl)-piperidin-4-yl]-urea;
25
                    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                                         dimethylamino-acetyl)-piperidin-4-yl]-urea;
30
                     (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureido] - 3 - (3R, 4R) - (3R,
                                          [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                         piperidine-1-carboxylic acid methylamide;
```

(3R, 4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-3-

```
[(S)-3-(4-fluoro-benzyl)-piperidin-1-vlmethyl]-
                          piperidine-1-carboxylic acid dimethylamide;
    5
              (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - 3 - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - (5 - acetyl - 4 - methyl - thiazol - 2 - y1) - ureido] - (5 - acetyl - 4 - methyl - 
                           [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                          piperidine-1-carboxylic acid ethylamide;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3S,4R)-1-ethyl-3-}
 10
                           [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                          piperidin-4-yl}-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3S,4R)-3-[(S)-3-
                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-propyl-
 15
                          piperidin-4-yl}-urea;
             1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4R)-3-[(S)-3-
                       (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                          isopropyl-piperidin-4-yl}-urea;
20
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                          cyclobutyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                          ylmethyl]-piperidin-4-yl}-urea;
25
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                          cyclopentyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-piperidin-4-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
30
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                          (tetrahydro-pyran-4-yl)-piperidin-4-yl]-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
35
                          (tetrahydro-thiopyran-4-yl)-piperidin-4-yl]-urea;
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```
1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(1,1-1)}
                            dioxo-hexahydro-1\lambda 6-thiopyran-4-yl)-3-[(S)-3-(4-
                            fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
    5
                           yl}-urea;
              1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                            [1,4']bipiperidinyl-4-yl}-urea;
 10
              (3R, 4R) - 4 - [3 - (5 - acetyl - 4 - methyl - thiazol - 2 - yl) - ureidol - 3 -
                            [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                            [1,4']bipiperidinyl-1'-carboxylic acid tert-butyl
                            ester;
 15
             1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1-(3R,4R)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-acetyl-3-[(S)-3-(4-fluoro-benzyl)-1'-a
                           piperidin-1-ylmethyl]-[1,4']bipiperidinyl-4-yl}-3-
                            (5-acetyl-4-methyl-thiazol-2-yl)-urea;
20
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1'-methyl-
                            [1,4']bipiperidinyl-4-yl}-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
25
                           cyclopropylmethyl-3-[(S)-3-(4-fluoro-benzyl)-
                          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
                          cyclobutylmethyl-3-[(S)-3-(4-fluoro-benzyl)-
30
                          piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-benzyl-
                          3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                          piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-((3R,4R)-3-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-2-
        ylmethyl-piperidin-4-yl}-urea;
5
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-3-
        ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiophen-
        2-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiophen-
        3-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-imidazol-
        2-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-{(S)-3-}}
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-imidazol-
        4-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-(S)-3-}
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-
        2-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
        [1,2,4]oxadiazol-3-ylmethyl-piperidin-4-yl}-urea;
   1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
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(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-

hydroxyethyl)-piperidin-4-yl}-urea;

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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
          hydroxy-2-methylpropyl)-piperidin-4-yl}-urea;
 5
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         hydroxy-3,3,3-trifluoropropyl)-piperidin-4-yl}-
          urea:
10
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-{(S)-3-}}
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         methoxy-ethyl)-piperidin-4-yl}-urea;
15
    1-(5-acety1-4-methyl-thiazol-2-y1)-3-{(3R,4R)-1-(2-y1)}
          ethoxy-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-
          1-ylmethyl]-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
20
         ethylsulfanyl-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
         ethanesulfonyl-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
25
         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
         acetoxy-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
30
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-}
         cyanomethyl-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)}
                         dimethylamino-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
                         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(2-yl)-3-{(3R,4R)-1-(2-yl)-3-{(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(2-yl)-3-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)-1-(3R,4R)
                         diethylamino-ethyl)-3-[(S)-3-(4-fluoro-benzyl)-
                         piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
 10
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                         pyrrolidin-1-yl-ethyl)-piperidin-4-yl]-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
 15
                         morpholin-1-yl-ethyl)-piperidin-4-yl]-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                        pyrrol-1-yl-ethyl)-piperidin-4-yl]-urea;
 20
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(3-oxo-
                        butyl)-piperidin-4-yl]-urea;
25
           1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
                        methyl-3-oxo-butyl)-piperidin-4-yl]-urea;
           1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
30
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(3-
                       hydroxypropyl) -piperidin-4-yl]-urea;
           1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                        (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(S)-3-
35
                       hydroxy-2-methylpropyl]-piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-(S)-3-}
                                                                                 (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(R)-3-
                                                                              hydroxy-2-methylpropyl]-piperidin-4-yl}-urea;
            5
                                        1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-(3,3-1)}
                                                                              dimethyl-2-oxo-butyl)-3-[(S)-3-(4-fluoro-benzyl)-
                                                                             piperidin-1-ylmethyl]-piperidin-4-yl}-urea;
    10
                                      2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-meth
                                                                             ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                                            ylmethyl]-piperidin-1-yl}-N-methyl-acetamide;
                                      2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4
   15
                                                                            ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                                            ylmethyl]-piperidin-1-yl}-N-isopropyl-acetamide;
                                      2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-
                                                                            ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
  20
                                                                            ylmethyl]-piperidin-1-yl}-N-tert-butyl-acetamide:
                                     2-\{(3R,4R)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-thiazol-2-yl)-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-[3-(5-acetyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-
                                                                            ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                                          ylmethyl]-piperidin-1-yl}-N, N-dimethyl-acetamide;
 25
                                     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4R)-3-[(S)-3-
                                                                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-
                                                                            cyclopentyl)-piperidin-4-yl]-urea;
30
                                    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-1-allyl-3-}
                                                                            [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                                                          piperidin-4-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4R)-3-[(S)-3-
                             (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-prop-2-
                            ynyl-piperidin-4-yl}-urea;
    5
              1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                            ylmethyl]-piperidin-3-yl}-3-(4-fluoro-phenyl)-urea;
              1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-1-(4-fluoro-benzyl)-
                            piperidin-1-ylmethyl]-piperidin-3-yl}-3-(4-fluoro-
 10
                           phenyl)-urea;
              1-[(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-1-(2-methoxy-acetyl)-piperidin-3-yl]-3-
                             (4-fluoro-phenyl)-urea;
 15
             1-\{(3R,4S)-1-cyclopropylmethyl-4-[(S)-3-(4-fluoro-
                           benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(4-
                            fluoro-phenyl)-urea;
20
             1-[(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-3-(4-
                           fluoro-phenyl)-urea;
             1-(3-acetyl-phenyl)-3-[(3R,4S)-4-[(S)-3-(4-fluoro-
25
                           benzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-acetyl)-
                           piperidin-3-yl]-urea;
             1-(3-acetyl-phenyl)-3-\{(3R,4S)-1-(2-dimethylamino-
                           acetyl)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
30
                           ylmethyl]-piperidin-3-yl}-urea;
             (3R, 4S) - 3 - [3 - (3 - acetyl - phenyl) - ureido] - 4 - [(S) - 3 - (4 - acetyl - phenyl)]
                           fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-
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carboxylic acid ethylamide;

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1-(3-acetyl-phenyl)-3-[(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-urea;
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- 5 (3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-3-{3-[3-(1-methyl-1H-tetrazol-5-yl)phenyl]-ureido}-piperidine-1-carboxylic acid tertbutyl ester;
- 1-{(3R,4S)-1-(2,2-dimethyl-propionyl)-4-[(S)-3-(4fluoro-benzyl)-piperidin-1-ylmethyl}-piperidin-3yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-piperidin-3-yl}-3-[3-(1-methyl-14-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 1-[(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-3-[3methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;

25

30 1-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-3-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-3-yl}-urea;

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1-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-3-
                                                                             [(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                                           ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-3-yl]-urea;
           5
                                     1-\{(3R, 4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl
                                                                           piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-(5-
                                                                           methyl-tetrazol-1-yl)-phenyl]-urea;
                                     1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)
   10
                                                                          piperidin-1-ylmethyl]-piperidin-3-yl}-3-(1-methyl-
                                                                         pyrazol-3-yl)-urea;
                                     1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)
                                                                         piperidin-1-ylmethyl]-piperidin-3-yl}-3-(thiazol-2-
  15
                                                                         yl)-urea;
                                    2-(3-(3R,4S)-1-acetyl-4-(S)-3-(4-fluoro-benzyl)-
                                                                         piperidin-1-ylmethyl]-piperidin-3-yl}-ureido)-4-
                                                                        methyl-thiazole-5-carboxylic acid ethyl ester;
 20
                                    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                                                                           (4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-
                                                                         3-vl}-urea;
 25
                                     (3R, 4S) -3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureidol-4-
                                                                           [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                                                        piperidine-1-carboxylic acid methyl ester;
                                    (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4-
30
                                                                         [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                                                                       piperidine-1-carboxylic acid tert-butyl ester;
                                 1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)
                                                                       piperidin-1-ylmethyl]-piperidin-3-yl}-3-(5-acetyl-
35
                                                                        4-methyl-thiazol-2-yl)-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-4-[(S)-3-4-1])}
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
          propionyl-piperidin-3-vl}-urea;
 5
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
          methyl-propionyl)-piperidin-3-yl}-urea;
10
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2,2-yl)}
          dimethyl-propionyl)-4-[(S)-3-(4-fluoro-benzyl)-
          piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
     1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
15
          cyclopropanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R, 4S)-1-}
          cyclobutanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
20
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
         cyclopentanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
         cyclohexanecarbonyl-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
30
    1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4S)-4-(S)-3-}
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
         (tetrahydro-pyran-4-carbonyl)-piperidin-3-yl}-urea;
```

- 5 1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2-dimethylamino-acetyl)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
- (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4
 [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]
 piperidine-1-carboxylic acid methylamide;
- (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid ethylamide;
 - (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid propylamide;
 - (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid isopropylamide;
- 25 (3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-4[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]piperidine-1-carboxylic acid allylamide;

20

(3R,4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-ureido]-430 [(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl] piperidine-1-carboxylic acid (5-acetyl-4-methyl-thiazol-2-yl)-amide;

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(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-methyl-
                         piperidin-3-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-
                          [1,4']bipiperidinyl-3-yl}-urea;
             1-\{(3R, 4S)-1'-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzyl)-4-[(S)-4-(4-fluoro-benzy
 10
                         piperidin-1-ylmethyl]-[1,4']bipiperidinyl-3-yl}-3-
                          (5-acetyl-4-methyl-thiazol-2-yl)-urea;
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                          (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1'-methyl-
 15
                          [1,4']bipiperidiny1-3-y1}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
                         cyclopropylmethyl-4-[(S)-3-(4-fluoro-benzyl)-
                         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
 20
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-[(3R,4S)-4-[(S)-3-yl)]
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
                         (tetrahydro-pyran-2-ylmethyl)-piperidin-3-yl]-urea;
25
            1-(5-acety1-4-methy1-thiazo1-2-y1)-3-{(3R,4S)-4-(S)-3-
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-2-
                        ylmethyl-piperidin-3-yl}-urea;
            1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
30
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-furan-3-
                        ylmethyl-piperidin-3-yl}-urea;
           1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-
35
                         [1,2,4]oxadiazol-3-ylmethyl-piperidin-3-yl}-urea;
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1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         fluoro-ethyl)-piperidin-3-yl}-urea;
 5
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
         hydroxy-ethyl)-piperidin-3-yl}-urea;
10
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-(2-yl)}
         ethanesulfonyl-ethyl)-4-[(S)-3-(4-fluoro-benzyl)-
         piperidin-1-ylmethyl]-piperidin-3-yl}-urea;
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-1-}
15
         cyanomethyl-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
         ylmethyl]-piperidin-3-yl}-urea;
    (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-
20
        hydroxy-propyl)-piperidin-3-yl}-urea;
    (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(S)-2-
        hydroxy-2-methyl-propyl]-piperidin-3-yl}-urea;
25
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-[(R)-2-
        hydroxy-2-methyl-propyl]-piperidin-3-yl}-urea;
30
    1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-4-[(S)-3-4-2])}
         (4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-oxo-
        propyl) -piperidin-3-yl}-urea;
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2-\{(3R, 4S)-3-[3-(5-acetyl-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-thiazol-2-yl)-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-methyl-4-met
                                                           ureido]-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                           ylmethyl]-piperidin-1-yl}-N, N-dimethyl-acetamide;
                             1-\{(3R, 4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                          ylmethyl]-1-isobutyryl-piperidin-3-yl}-3-[3-(1-
                                                          methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                             1-\{(3R,4S)-1-benzoyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl)-4-[(S)-4-(5-fluoro-benzyl
   10
                                                         piperidin-1-ylmethyl]-piperidin-3-yl}-3-[3-(1-
                                                         methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                             1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                         ylmethyl]-1-(propane-2-sulfonyl)-piperidin-3-y1}-3-
  15
                                                           [3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
                            1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                                                         ylmethyl]-piperidin-3-yl}-3-(2-morpholin-4-yl-
                                                         ethyl)-urea;
 20
                             ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
                                                        piperidine-1-carboxylic acid methyl ester;
 25
                           1-\{(3R,4S)-1-acetyl-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)-4-[(S)-3-(4-fluoro-benzyl)
                                                        piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
                                                        morpholin-4-yl-ethyl)-urea;
                           1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
30
                                                       ylmethyl]-1-propionyl-piperidin-3-yl}-3-(2-
                                                       morpholin-4-yl-ethyl)-urea;
                          1-\{(3R,4S)-1-(2,2-dimethyl-propionyl)-4-[(S)-3-(4-1)]
                                                       fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-
35
                                                      yl}-3-(2-morpholin-4-yl-ethyl)-urea;
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1-\{(3R,4S)-1-cyclobutanecarbonyl-4-[(S)-3-(4-fluoro-
          benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
          morpholin-4-yl-ethyl)-urea;
 5
     1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-(tetrahydro-pyran-4-carbonyl)-
          piperidin-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea;
10
     1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-(2-methoxy-acetyl)-piperidin-3-yl}-3-
          (2-morpholin-4-yl-ethyl)-urea;
     (3R, 4S) - 4 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
15
          ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
          piperidine-1-carboxylic acid dimethylamide;
     (3R, 4S) - 4 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 -
          ylmethyl]-3-[3-(2-morpholin-4-yl-ethyl)-ureido]-
20
          piperidine-1-carboxylic acid ethylamide;
     1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methanesulfonyl-piperidin-3-yl}-3-(2-
          morpholin-4-yl-ethyl)-urea;
25
    1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
          ylmethyl]-1-methyl-piperidin-3-yl}-3-(2-morpholin-
          4-yl-ethyl)-urea;
30
    1-\{(3R,4S)-1-\text{ethyl}-4-[(S)-3-(4-\text{fluoro-benzyl})-\text{piperidin-}\}
          1-ylmethyl]-piperidin-3-yl}-3-(2-morpholin-4-yl-
          ethyl)-urea;
```

1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-

```
ylmethyl]-1-isopropyl-piperidin-3-yl}-3-(2-
                            morpholin-4-yl-ethyl)-urea;
   5
             1-\{(3R,4S)-1-cyclopropylmethyl-4-[(S)-3-(4-fluoro-
                            benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-(2-
                            morpholin-4-yl-ethyl)-urea;
              1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
10
                            ylmethyl]-1-(2-oxo-propyl)-piperidin-3-yl}-3-(2-
                            morpholin-4-yl-ethyl)-urea;
             1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                            ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-
15
                            tetrazol-5-yl)-phenyl]-urea;
             1-\{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                           ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-methyl-5-(1-
                           methyl-1H-tetrazol-5-yl)-phenyl]-urea;
20
             1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-
                            (4-fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-
                           pyran-3-yl}-urėa;
25
             ylmethyl]-4-[3-(4-fluoro-phenyl)-ureido]-
                           piperidine-1-carboxylic acid methyl ester;
            1-\{(3R,4R)-1-(2-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-\{(S)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4-dimethylamino-acetyl)-3-(4
                           fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
30
                          yl}-3-(4-fluoro-phenyl)-urea;
            1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
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ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-(4-

fluoro-phenyl)-urea;

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1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-3-(4-fluoro-phenyl)-urea;
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- 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
 - 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
- 10 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-morpholin-4-yl-ethyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
- 1-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3-(4-fluoro-phenyl)-urea;
 - (3R,4R)-4-[3-(3,5-diacetyl-phenyl)-ureido]-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid methyl ester;
- 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-1-(2-dimethylamino-20 acetyl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-4-yl}-urea;
 - 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-methanesulfonylpiperidin-4-yl}-urea;
- 25 1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-1-(1,1-dioxo-hexahydro-1λ6-thiopyran-4-yl)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-yl}-urea;

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1-(3,5-diacetyl-phenyl)-3-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-urea;
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- 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-urea;
 - 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-(2-methoxy-ethyl)piperidin-4-yl]-urea;
- 10 1-(3,5-diacetyl-phenyl)-3-[(3R,4R)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1-(2-morpholin-4-ylethyl)-piperidin-4-yl]-urea;
- 1-(3,5-diacetyl-phenyl)-3-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-urea;
 - (3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5yl)-phenyl]-ureido}-piperidine-1-carboxylic acid
 methyl ester;
- 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;

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1-[(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-[3-
                         methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
            1-[(3R, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
   5
                         ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-[3-
                         methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
            1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-(2-morpholin-4-yl-ethyl)-piperidin-4-
                         y1]-3-[3-methy1-5-(1-methy1-1H-tetrazo1-5-y1)-
10
                         phenyl]-urea;
            1-[(3S, 4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                         ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3-
                         [3-methyl-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-
                         urea;
15
            (3R, 4R) - 3 - [(S) - 3 - (4 - fluoro - benzyl) - piperidin - 1 - 
                        ylmethyl]-4-{3-[3-bromo-5-(1-methyl-1H-tetrazol-5-
                        yl)-phenyl]-ureido}-piperidine-1-carboxylic acid
                        methyl ester;
            1-\{(3R,4R)-1-(2-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-3-[(S)-3-(4-dimethylamino-acetyl)-
20
                         fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-4-
                        y1}-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-
                        phenyl]-urea;
            1-\{(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
                        ylmethyl]-1-methanesulfonyl-piperidin-4-yl}-3-[3-
25
                        bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
           1-\{(3R,4R)-3-\{(S)-3-(4-fluoro-benzyl)-piperidin-1-
                        ylmethyl]-1-thiazol-2-ylmethyl-piperidin-4-yl}-3-
                        [3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-
                        urea:
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1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1-
ylmethyl]-1-(2-hydroxy-ethyl)-piperidin-4-yl]-3-[3-
bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
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- 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-methoxy-ethyl)-piperidin-4-yl]-3-[3bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-[(3R,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-1-(2-morpholin-4-yl-ethyl)-piperidin-4yl]-3-[3-bromo-5-(1-methyl-1H-tetrazol-5-yl)phenyl]-urea;

10

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- 1-[(3S,4R)-3-[(S)-3-(4-fluoro-benzyl)-piperidin-1 ylmethyl]-1-(2-hydroxy-propyl)-piperidin-4-yl]-3 [3-bromo-5-(1-methyl-1H-tetrazol-5-yl)-phenyl] urea;
- 15 (3R,4S)-3-(3-benzyl-ureido)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidine-1-carboxylic acid tert-butyl ester;
 - 1-benzyl-3-{(3R,4S)-4-{(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl}-piperidin-3-yl}-urea;
- 20 (3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-3-[3-(tetrahydro-pyran-4-ylmethyl)-ureido]-piperidine-1-carboxylic acid tert-butyl ester;
- 1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-piperidin-3-yl}-3-(tetrahydro-pyran-4ylmethyl)-urea;
 - (3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1ylmethyl]-3-{3-[2-(tetrahydro-pyran-4-yl)-ethyl]ureido}-piperidine-1-carboxylic acid tert-butyl
 ester;

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1-{(3R,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-piperidin-3-yl}-3-[2-(tetrahydro-pyran-4-yl)-ethyl]-urea;
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- 1-{(3S,4S)-4-[(S)-3-(4-Fluoro-benzyl)-piperidin-1ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-methyl-5-(1methyl-1H-tetrazol-5-yl)-phenyl]-urea;
 - 1-{(3S,4S)-4-[(S)-3-(4-fluoro-benzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- - 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1ylmethyl]-tetrahydro-pyran-3-yl}-3-(3acetylphenyl)-urea;

15

- 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-tetrahydro-pyran-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea;
- 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-120 ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[5acetyl-4-methylthiazol-2-yl]-urea;
 - 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[3-(1-methyl-1H-tetrazol-5-yl)-phenyl]-urea;
- 25 1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-[3-acetylphenyl]-urea;

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1-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-
ylmethyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-(2-
morpholin-4-yl-ethyl)-urea;
```

- 1-(5-acetyl-4-methyl-thiazol-2-yl)-3-{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-1,1-dioxotetrahydro-1λ6-thiophen-3-yl}-urea;
 - 1-{(3R,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidine-1-carbonyl]-1,1-dioxo-tetrahydrothiophen-3-yl}-3-(2-morpholin-4-yl-ethyl)-urea;
- 10 (3S,4S)-3-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]4-{3-[3-methyl-5-(1-methyl-1H-tetrazol-5-yl)phenyl]-ureido}-pyrrolidine-1-carboxylic acid tertbutyl ester;
- 1-(5-acetyl-4-methylthiazol-2-yl)-3-{(3S,4S)-4-[(S)-3-(4-fluorobenzyl)-piperidin-1-ylmethyl]-pyrrolidin-3-yl}-urea.
- 13. A pharmaceutical composition, comprising a pharmaceutically acceptable carrier and a20 therapeutically effective amount of a compound according to Claims 1-12.
- 14. A method for modulation of chemokine receptor activity comprising administering to a patient in need thereof a therapeutically effective amount of a compound according to Claims 1-12.
- 15. A method for treating or preventing asthma, comprising administering to a patient in need thereof a therapeutically effective amount of a compound according to Claims 1-12.

16. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound according to Claims 1-12, or a pharmaceutically acceptable salt thereof.

17. The method of claim 14 wherein modulation of chemokine receptor activity comprises contacting a CCR3 receptor with an effective inhibitory amount of the compound.

5

- 18. A method for treating or preventing inflammatory disorders comprising administering to a patient in need thereof a therapeutically effective amount of a compound according to Claims 1-12, or a pharmaceutically acceptable salt thereof.
- 19. A method according to Claim 18, wherein the disorder is selected from asthma, allergic rhinitis,
 20 atopic dermatitis, inflammatory bowel diseases, idiopathic pulmonary fibrosis, bullous pemphigoid, helminthic parasitic infections, allergic colitis, eczema, conjunctivitis, transplantation, familial eosinophilia, eosinophilic cellulitis, eosinophilic pneumonias, eosinophilic fasciitis, eosinophilic gastroenteritis, drug induced eosinophilia, HIV infection, cystic fibrosis, Churg-Strauss syndrome, lymphoma, Hodgkin's disease, and colonic carcinoma.
- 20. The method according to Claim 21, wherein the disorder is selected from asthma, allergic rhinitis, atopic dermatitis, and inflammatory bowel diseases.

21. The method according to Claim 20, wherein the disorder is asthma.

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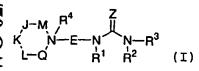
Published:

- with international search report
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- (88) Date of publication of the international search report: 29 August 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: N-UREIDOHETEROCYCLOAKLYL-PIPERIDINES AS MODULATORS OF CHEMOKINE RECEPTOR ACTIV-



(57) Abstract: The present application describes modulators of CCR3 of formula (I): (I)or pharmaceutically acceptable salt forms thereof, useful for the prevention of asthma and other allergic diseases.

INTERNATIONAL SEARCH REPORT

in inal Application No PCT/US 01/20989

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D403/12 C07D IPC 7 C07D407/12 C07D409/12 C07D211/56 CO7D403/14 CO7D413/14 C07D417/14 A61K31/4025 A61K31/4427 A61P37/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C07D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. A EP 0 903 349 A (HOFFMANN LA ROCHE) 12-21 24 March 1999 (1999-03-24) cited in the application page 2, line 3 page 2, formula (I) page 45, line 44,45 examples 2,9 Α WO 97 24325 A (TAKEDA CHEMICAL INDUSTRIES 12-21 LTD ;KATO KANEYOSHI (JP); YAMAMOTO MITS) 10 July 1997 (1997-07-10) page 1, line 7 - line 10 page 2, line 18 - line 23 page 3, line 1 - line 3 page 3, formula (I) page 120, line 28 - line 32 pages 158, 159, example 4-8 page 177, example 27-2 Further documents are listed in the continuation of box C. Patent family members are fisted in annex. Special categories of cited documents : *T* later document published after the international filing date or priority date and not in conflict with the application but *A* document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 June 2002 27/06/2002 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Hoepfner, W Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

i inal Application No PCT/US 01/20989

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	101/03 01/20303		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	US 5 962 462 A (SPRINGER MARTIN S ET AL) 5 October 1999 (1999-10-05) column 3, line 39 - line 49 column 4, formula I column 69, line 1-5,10,15	12-21		
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International application No. PCT/US 01/20989

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims wire found unsearchabli (Continuation of Item 1 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1. χ	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
	Although claims 14, 15 and 17-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.						
2. 🗓	Claims Nos.: 1-11 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
	see FURTHER INFORMATION sheet PCT/ISA/210						
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)						
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:						
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.						
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
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3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
Remark	on Protest The additional search fees were accompanied by the applicant's protest.						
	No protest accompanied the payment of additional search fees.						

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-11

Present claims 1-11 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds referred to on pages 38-72 of the description, the compounds referred to in the worked examples (pages 140-231) and the compounds claimed in the present claim 12.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Ir...unal Application No PCT/US 01/20989

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0903349	A	24-03-1999	AU	744059 B2	14-02-2002
			AU	8080098 A	25-02-1999
			BR	9803179 A	28-03-2000
		•	CA	2245043 A1	18-02-1999
			CN	1211572 A	24-03-1999
			CZ	9802566 A3	17-03-1999
			DE	19837386 A1	25-02-1999
			ĒΡ	0903349 A2	24-03-1999
			ĒS	2154167 A1	16-03-2001
			FR	2767826 A1	05-03-1999
		•	GB	2330580 A	28-04-1999
·			HR	980450 A1	30-06-1999
			HU	9801887 A2	28-06-1999
			IT	MI981902 A1	18-02-2000
			JP	3014367 B2	28-02-2000
			JP	11147872 A	02-06-1999
			NO	983749 A	19-02-1999
			NZ	331319 A	27-03-2000
			PL	328049 A1	01-03-1999
			SG	70110 A1	25-01-2000
		•	TR	9801594 A2	22-03-1999
			US	6323223 B1	27-11-2001
		•	US	6339087 B1	15-01-2002
			ZA	9807448 A	22-01-1999
WO 9724325	Α	10-07-1997	AU	1208397 A	28-07-1997
			WO	9724325 A1	10-07-1997
			JP	10081665 A	31-03-1998
US 5962462	 А	05-10-1999	AU	5803398 A	03-07-1998
			WO	9825605 A1	18-06-1998